

TURNOUT

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THE OFFICIAL NEWSLETTER OF NORTHERN TURNERS INC.



Presidents View June 2016

Another busy and eventful month for Northern Turners.

Week 2 was transformed by an alteration of our program where Anne Kerr delivered a 'hands on' tutorial to 4 turners on the making of Barley Twists. This augmented Bill's normal session and generated significant interest from the other members who were keen to observe and investigate at the same time. This is a variation from the normal demonstrations and involves step by step instruction to produce the twist. Anne has already another 4 members that have reserved a place in a repeat of this event.

This prompts the request that if you do not wish to volunteer for a demonstration to a whole club audience perhaps, you may be willing to tutor 3 or 4 members in the step by step making of an item. If so please contact any member of the Committee or organize directly with Bill Elliot to coordinate a time and space in week 2. Bill has welcomed the new learning and experience offered by this approach and would like to see more members being involved in the sharing of skills & techniques.

As a club we are fortunate to have members that work to provide access to timbers including: Broughton Willow cut & moved by Graham Reed, Tony Davies, David Gilland and crew, and Jan Beare for coordinating access to some 130 yr old Holm Oak (with a catch that you must make a small article to donate to the Botanic Gardens to sell through their shop if you took a piece) and the almond trees that were recently offered and collected, by individuals, to the club through a Facebook message from Clinton Wemmer at Salisbury Park. The sharing of these resources is a most valuable role provided for our club members. Well done.

A reminder to enter your items in our exhibition at the Woodgroup SA **Master Builders Home Show**, 15 to 17 July. To enter you must follow the prerequisites:

- notify Ron Allen by email by Friday 8th July to all.wood@bigpond.com (no intentions to enter will be received after this date.)
- indicate the number of pieces (up to a maximum of 20) however total number displayed is dependent on space & reserves will be used, when one of your pieces piece is sold
- complete the entry form & pay fee on arrival \$10
- entries **MUST BE DELIVERED** to the Showgrounds between 2 & 3pm on Thursday July 14th

Check for the conditions of entry and entry form that was forwarded by Dale Starr on May 31st. I encourage all members to have a "Go" and enter into the Exhibitions offered.

It is really worthwhile and you gain the opportunity to sell some of your pieces.

Lindsay Winen President Northern Turners (& temporary editor Newsletter)

Northern Turners Committee

President	Lindsay Winen
Secretary / Correspondence	Dale Starr
Treasurer	Robert Edge
Vice President	Jan Beare
Member	Bill Elliot
Member	Glenn Kutchen
Member	Fred McCann
Member	Jake Jacobs

Send all articles to

turnout@woodgroupsa.org.au

Your Northern Turners

- *Seeking Excellence*
- *Encouraging Individualism*
- *Fostering Creativity*
- *Teaching Skills*
- *Providing Support*

Assistance required.

Mick has decided to stand back from the store duties he has undertaken for many years. We thank him for his tireless efforts and organization over this time. As a result Northern Turners need assistance to open up, check & close at each meeting. If you think you would like to help please approach any committee member. In the interim Leith is leading this role but **does need immediate help**. I urge all members when attending 'hands on' sessions to do their bit.

- Clean the bandsaw clean after use (donate to cost of blade replacement)
- CHECK with either Fred McCann or Edward Noah before you use the bandsaw to vet the task.
- Clean your lathe, or the one you shared, properly including vacuum
- Check contents of toolbox with lathe before and after use
- Return machines & toolbox to entry of store room.
- Sweep & vacuum your floor area.
- Help general clean up at end of session including emptying bins, packing tea, coffee, urn facilities, sweeping floors, etc.

Tea Tree Gully Community Grant.



On Wednesday 29th June Fred McCann, Robert Edge & Jake Jacobs and I attended the Tea Tree Gully Council Chambers to collect our grant certificate with other grant recipients. TTG Council has awarded \$70000 in grants to local community organizations including Sporting Clubs, Cultural events, Community Gardens & programs that assist children in disadvantage. It was a great awareness raising occasion as we were able to see a Local Government organization encourage Community Development and support improvement of lifestyle and participation in the community.

Our club is regarded well by the Mayor Mr Kevin Knight, Deputy Mayor Mr. Bernie Keane & Cr Sandy Keane (who have visited our club on previous occasions) and were very encouraging of the role our club plays in the community. Our thanks to the TTG Council, for supporting our endeavours to award \$2940 to purchase 2 new variable speed lathes and chuck

Week 2

Bills normal session of freestyle turning was supplemented with a small tutorial by Anne on the making of Barley twists for a small group of 4

A very worthwhile and challenging but stimulating experience.



Week 3 was a very skillful and entertaining demonstration by Roger Humphris on the manufacture of Lace Bobbins. Not only were we presented with an amazing and delicate display of turning skills but a recount of the history, perspective and marketing of Lace Bobbins. If you wish to test your skill level, produce a number of these as a 'matched pair'. A very significant challenge! Thanks again Roger for your insights and masterful demonstration. Thanks also to other members that bought their experiences and samples to share at show & tell as well as Bill's amazing Fruit Bowl



Week 4 was a variation from our normal demonstrations with a presentation by St John's member Katie Wardop on 'First Aid in the workshop'. This was a brief presentation to remind us of the risks and consequences we are exposed to in our workshops, especially from the perspective of working alone. Katie covered topics of indicators of Stroke, Heart Attack & typical injuries that occur in our environment such as lacerations, amputation, crush eye intrusions etc.



An emphasis was placed on communicating to others when working in your workshop:

- Let someone know how long you intend to be in the workshop
- purchase a cheap high pitched safety whistle (available in most cheap shops) to alert others, including neighbours, if you are in distress or injured
- If you have a mobile phone take it into the workshop with you
- Keep the mobile phone in your pocket, so it is always accessible, especially if you experience an immobilizing injury.

First Aid Kits were covered with a mention that comprehensive and appropriate kits can be purchased from the St John store online at : <http://shop.stjohn.org.au/home-outdoor-sport-first-aid-kits/> Our appreciation of Katies demonstration was shown through the very attractive resin and timber pendant that was made by Bill Elliot. Thanks very much Katie! (and Bill for the pendant)



Mick Adley followed Katie with a lecture on lathe maintenance and appropriate safety considerations. Thanks Mick for your time and thoughts. A wonderful variety of items on Show & tell with Anne Kerr winning the Halo for the month

**Thanks again to Ron Young for his continued capture and sharing of images

Northern Turners Online Calender

There is an online calender for Northern Turners. This is displayed on a web page. Simply following this link will take you to this page and then you can bookmark it on your computer.

<https://teamup.com/ksd06886aaeace60b8>

If you have a smartphone, tablet, iPad, PC or Mac that you are using an electronic calender (including Google calenders & Outlook) Please make sure your calender setting is on, or allowed, and then click on this calender subscription link below. This will allow all events and entries to appear in your calender. As I update the calender with information all your events with NT will also update

<webcal://ics.teamup.com/feed/ks6de15ea255bf753f/0.ics>

Please if you find any errors or need something added please email me at Lindsay.winen434@gmail.com

Variable Frequency Drive (VFD) for Woodfast M305

Gordon Best

Having been convinced of the benefits of variable speed — particularly easy slowing for sanding and fine tuning to avoid higher speed resonances (and surely frequent belt changing must shorten the life of that expensive belt) — I developed a desire for a lathe with such a capability. But I was happy enough with my little M305 and wasn't sure I wanted to spend a lot of money either to replace it or even to buy a commercial VFD kit.



So I was interested to find a 2012 Silicon Chip magazine article which described a kit for building a VFD which could be used for controlling some single phase induction motors. It was designed to run pool pumps a bit slower to save on power costs. On checking, my M305 had the right sort of single phase motor and was well within the 1.5kW rating of the kit. After seriously thinking about that kit for a couple of years, during which time I tried to assess a couple of cheaper Chinese fully built versions (something that would have been easier if I spoke Chinese), I noticed that Jaycar no longer advertised the kit, but still had one or two in stock and I grabbed one, discounted to about \$190.

The kit was sold as "an advanced project — for experienced constructors only" and could be lethal if I didn't know what I was doing. Yeah yeah, I'd built plenty of electronic gadgets in my time, so that wouldn't be a problem. In fact though, it's probably been 25 or

30 years since I last did much electronic construction and things have changed a bit since then. Everything is smaller, resistor colour codes are harder to read and I needed magnification to read values on many other components. Even the circuit diagrams are less complete now with some of the large scale integrated circuits just shown as boxes with numbered pins and not much indication of what is inside them. I did have some second thoughts as the project progressed. But with care, everything fitted where it should and construction was completed. After thoroughly checking every soldered joint with a magnifying glass about three times, I switched it on with considerable trepidation. I wasn't quite sure that I would ever be able to fix it if it didn't work! It did seem to be working Relief.



I had every intention of rewiring the lathe and installing the box between the normal on-off switch and the motor, but for quick initial tests I just plugged



the lathe's main power plug into the VFD output. That worked but only for higher speeds. After an hour or two of head scratching, I realised that the solenoid that holds the green button in was dropping out at the low voltages that go with lower frequencies. Rewired as intended (with the on-off switch fed from the full 240 Volts), there was no problem.

It really is a pleasure to use the lathe now. It is set up for a frequency range of about 30% to 130%, so the 4th pulley range is 500 to 2000 rpm. For heavier work, belt changing is still an option. It has all the disadvantages of electronic speed control — reduced torque at low speeds, the motor fan does not cool as well at low speeds, and we still have that very small motor, but it saves a great deal of belt changing.

And, of course, the single phase motor does not provide reversing.

Would I recommend building another one? Altronics still advertise kits for \$275. Before doing that, I'd still be interested in comparing the performance of a Chinese model which should still work with single phase motors like mine. That might be cheaper and a lot easier than doing what I did, but at least I now know that my model works and I have a base for comparison.

Program July– October 2016

July 2016

Fri 8 Jul	9am - 5pm	Last day to notify of intent to enter MBA & Home Show - Email: all.wood@bigpond.com (Ron Allen)
Sat 9 Jul	10am - 2pm	Refining skills; Developing pieces to Exhibition quality - Golden Grove High School (Bill Elliot)
Thu 14 Jul	2pm - 3pm	MBA & Home Improvement Exhibition Delivery deadline - Wayville Showgrounds (Exhibition Committee)
Fri 15 Jul	All day - Sun 17 Jul	MBA and Home Improvement Show - Wayville Showgrounds (Northern Turners etc)
Sat 16 Jul	All day	No Club Meeting due to exhibition
Sat 23 Jul	9am - 10am 10am - 10:30am 10:30am - 2pm 11:30am - 12pm	Northern Turners Committee - Golden Grove High School (Executive) General Meeting - Golden Grove High School (Chairperson Lindsay Winen) Jewellery - Golden Grove High School (Dave Gilland) Sorby Pro Edge Demonstration - Golden Grove High School (Tim Skilton)

August 2016

Sat 13 Aug	10am - 2pm	Refining skills; Developing pieces to Exhibition quality - Golden Grove High School (Bill Elliot)
Sat 20 Aug	10am - 2pm 10am - 2pm	Decorating Platters - Golden Grove High School (Ron Allen) Gawler Show entries received at Club meeting - Golden Grove High school (Exhibition Committee)
Thu 25 Aug	9am - Fri 26 Aug 3am	Deadline for Gawler Show entries (Received at Graham Reed, Greg Jackson, Bill Elliot, Paul BeeBee's homes)
Sat 27 Aug	All day - Sun 28 Aug 9am - 10am 10am - 10:30am 10:30am - 2:30pm	Gawler Show - Gawler Showgrounds Northern Turners Committee - Golden Grove High School (Executive) General Meeting - Golden Grove High School (Chairperson L. Winen) To be advised - Golden Grove High School

September 2016

Sat 10 Sep	All day	Refining skills; Developing pieces to Exhibition quality - Golden Grove High School (Bill Elliot)
Sat 17 Sep	10am - 2pm	Earring Stand Holder - Golden Grove High School (George Pastuch)
Sat 24 Sep	9am - 10am 10am - 10:30am 10:30am - 2pm	Northern Turners Committee - Golden Grove High School (Executive) General Meeting - Golden Grove High School (Chairperson L. Winen) To be advised - Golden Grove High School
Thu 29 Sep	1pm - 4pm	Deadline for receipt of Wood revisited exhibition pieces - 60 Commercial Rd Port Adelaide (Exhibition Committee)

October 2016

Sat 1 Oct	All day - Sun 16 Oct 1pm - 2pm	Wood Revisited Exhibition - Port Adelaide Official Opening of Wood Revisited Exhibition - Port Adelaide (President & invited speaker)
Wed 5 Oct	All day	Deadline for receipt of exhibits for Sunday Mail HIA Show - Wayville Showgrounds (Exhibition committee)
Fri 7 Oct	10am - Sun 9 Oct 5pm	Sunday Mail HIA Show - Wayville Showgrounds (Exhibition Committee)
Sat 8 Oct	10am - 2pm	Refining skills; Developing pieces to Exhibition quality - Golden Grove High School (Bill Elliot)
Sat 15 Oct	10am - 2pm	Resin Inserts for Box Lids - Golden Grove High School (George Pastuch)
Sat 22 Oct	9am - 10am 10am - 11am 11am - 2pm	Northern Turners Committee - Golden Grove High School (Executive) Annual General Meeting - Golden Grove High School (Chairperson L. Winen) To be advised - Golden Grove High School