

**LISMORE  
FLYING**



**MODEL  
CLUB**

# **NEWSLETTER**

October 2017.



*A little hot and tired but very happy. Trevor Mills, at the field on a humid and somewhat gusty day, has just nailed a couple of near perfect landings. With some help from Neil C., Trevor is fast becoming a very competent pilot.*

**Please remember,  
our next meeting is the SECOND Sunday of the month.**

**SUNDAY, November 12th.**

**9.00A.M. Start.**

**News in brief**

Another newsletter for your perusal. I didn't know if I would be putting out this month's newsletter, but thanks to a bit of luck, some gratefully accepted encouragement and a few more articles, we're off and running.

There are plenty of projects underway amongst the members and I have put a few in this newsletter, like Neil Cliffords 3D router. Neil has put a good amount of effort into this unit and has had to do a fair bit of study to understand the programming side of things. It just goes to show what can be done with limited handyman tools and enough ambition.

The droning whistle of a Junkers Stuka dive bomber can be heard over the Richmond Hill area as well. Photos are expected soon.

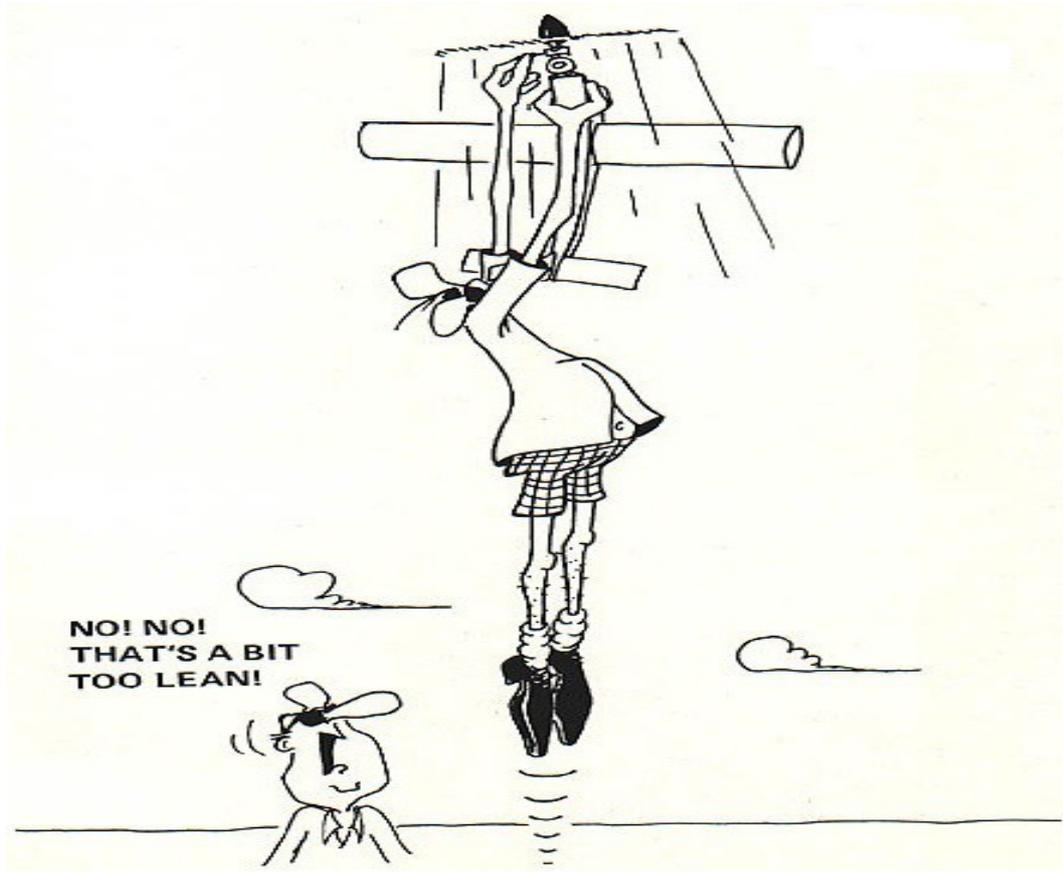
Several more pictures from Lyndsay Low's U.K. Excursion add a bit of colour and maybe give some inspiration for your next model purchase, or encourage a few new balsa builds in member's workshops.

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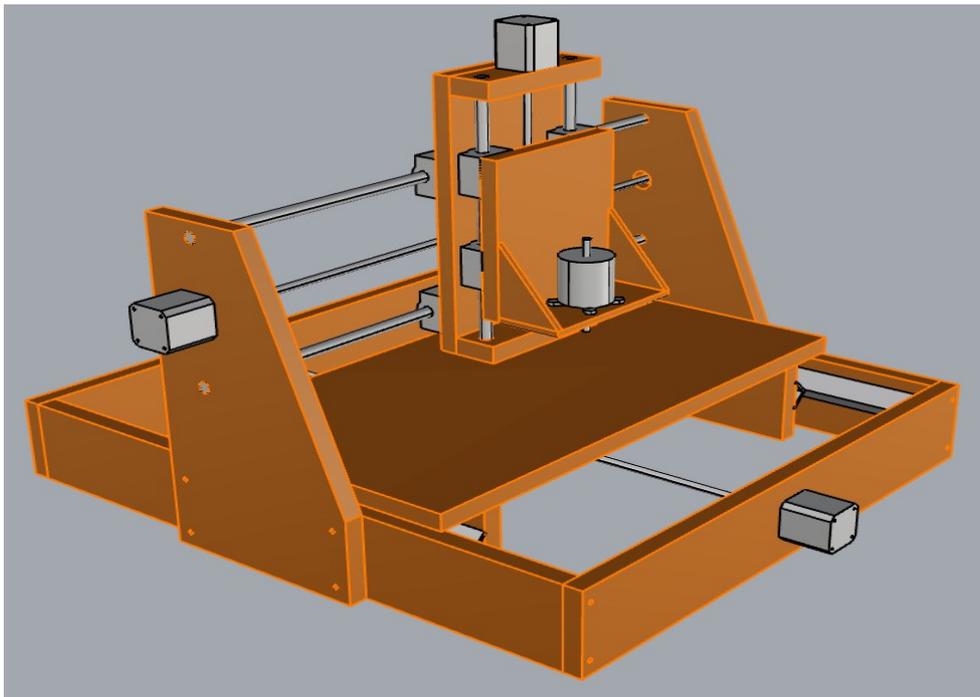
*This month in 1934....*

*October 20-November 5 — MacRobertson Air Race flown from England to Melbourne, Australia to celebrate the centenary of the state of Victoria. The £75,000 prize money is won by Charles Scott and Tom Black flying de Havilland DH.88 Comet "Grosvenor House".*

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**Neil's CNC router.**



**It is a fixed gantry machine, meaning the table is driven back and forth carrying the item to be machined while the router moves sideways. This configuration provides a smaller footprint (600mm x 600mm), useful given my space limitations. Cutting area is approximately 300mm x 300mm. I have cut balsa and plywood up to 18mm thick with this machine.**

## **Components**

### **Wood:**

- **18mm plywood, 1/4 sheet.**
- **1m x 89mm x 19mm pine plank, 4.**
- **1m x 43mm x 19mm pine plank, 4.**

### **Electronics:**

- **NEMA 17 stepper motors, 3.**
- **TB6560 3 axis stepper motor controller board.**
- **Turnigy 5050 580kV brushless outrunner motor and speed controller.**
- **Servo controller.**

### **Metal:**

- **600mm x 12mm round silver steel shafts, 2.**
- **300mm x 12mm round silver steel shafts, 2.**
- **12mm linear bearings, 8.**
- **8mm ER11 spindle and collett.**
- **1m x 25mm x 3mm aluminium angle, 2.**
- **22mm x 8mm x 7mm bearings, 11.**
- **1m x 8mm steel threaded rod, 2.**
- **8mm bolts, 6.**
- **8mm threaded couplers, 3.**

### **Software:**

- **Draughtsight, a free CAD programme**
- **LinuxCNC**
- **CamBam**

### **To explain the acronyms:**

- **CAD = Computer Assisted Drafting**
- **CAM = Computer Assisted Machining**
- **CNC = Computer Numerical Control**

### **Suppliers:**

- **Bunnings for wood, aluminium angle, threaded rod, nuts and bolts.**
- **Hobbyking for Turnigy 5050 outrunner motor,ESC and servo controller.**

**All the information needed to engage in this project was easily found on the internet. CAD work was familiar to me, but CAM and CNC was entirely new and required some research. The design shown is an amalgum of things I liked after looking at dozens of other designs.**



***More photos from Lynday.***

**Some of the models shown below are breathtaking in detail and size. This lot show a few examples of transport aircraft through the years, from the modern jet liner to the more sedate DH Dragon.**





## *Mystery Plane.*

Last month's mystery caught a few out who thought it may have been the famous Lancaster, but the sharper eyed rightly named it as the Lincoln, although the actual picture is of a static model.



So, for this month we have a plane that enthusiasts will probably pick quite easily, but may be a bit of a challenge for others.



## **LMFC Calendar**

<b>Nov</b>	
5/11	
12/11	Meeting; BBQ breakfast; E-Glider comp;
19/11	Fling Comp from 10am & BBQ lunch; Tingalpa Bi-planes & warbirds (see below)
26/11	Work Bee & free BBQ; Gun Club
<b>Dec 2017</b>	
3/12	
10/12	Meeting; Santa & Swap meet; BBQ breakfast; E-Glider comp;
17/12	Fling Comp from 10am & BBQ lunch
24/12	
31/12	
<b>Jan 2018</b>	
7/1	
14/1	E-Glider comp;
21/1	Fling Comp from 10am & BBQ lunch
28/1	Gun Club I?); Armidale Sailplane 25-29 <sup>th</sup> ;

**Gun Club - Please be particularly thoughtful on our access road and in the air on days when our neighbouring Gun Club are having their monthly competitions.**

**Tingalpa MAC Brisbane, Sunday 19th November**

**BI-PLANES & WARBIRDS (Porter Field 8.00am-2.00pm) Includes The Dave Summer's Trophy**

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*And remember.....*

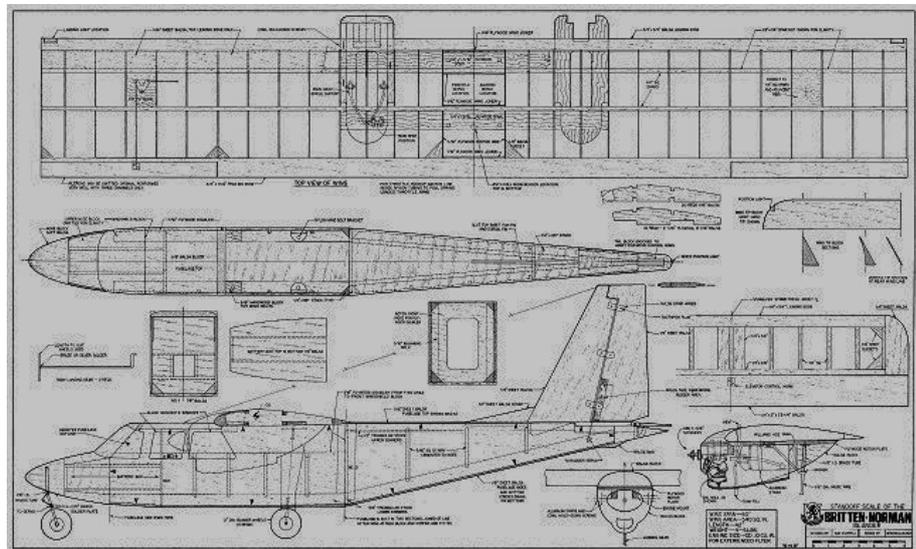
*The best cure for Sea Sickness, is to sit under a tree.*

*Spike Milligan*

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Another project underway is my Britten Norman Islander, BN2. I thought an electric twin might be a nice change so I found the appropriate plans on line at [www.outerzone.co.uk](http://www.outerzone.co.uk) , took the file to Officeworks in Lismore, and had a print made for under \$6.

The build has been interesting and time consuming. The control horns for elevator and rudder are all internal. There is quite a bit of balsa block shaping for the nose and engine nacelles as well. So far the model is shaping up well .



The usual fun time cutting out wing ribs and all of the other parts has kept me occupied during Spring evenings.



A different feature of this model is the wing bolt down, with the bolts being put in from underneath.

**The basic shape is starting to look correct but there is a fair bit of allowance for interpretation. It is “Stand Off scale” after all.**

**There is still a lot of work remaining, such as wiring the twin brushless motors and manufacturing the undercarriage parts and engine nacelles.**



**Hopefully the model will be ready to put into the air in a few weeks.**



**Tony Meggs with his “Hanger Monkey”, designed by Mike Bell, and built from a free plan in the October 2016 RCM&E.**

**It is of conventional balsa and ply construction, and covered in Bemsilk. Span is 1470mm and initial flying weight was 1.9kg, giving a wing loading of 4.8kg/square meter.**





**Originally designed for an internal combustion engine (OS.46), it has been re-powered it with an MVVS 3.5/1200 Sport, 11" x 5.5" APC prop, and a 3S 3300mah pack.**

**The nose has been lengthened about 100mm to compensate for lighter electrics.**

**Just as a side note, Tony, who currently pilots his own full size aircraft, has created a wesite (see below) which may be of interest to members.**

<http://www.australianbuiltaircraft.com.au/>



*And remember.....*

*America is the only country where a significant proportion of the population believes that professional wrestling is real, but the moon landing was faked.*



I doubt anyone reads this bit at the end, but here we go anyway. The Lismore Model Flying club newsletter is a publication of the Lismore Model Flying Club (LMFC). The club membership assumes no responsibility for any information contained herein. Most of it is bollocks anyway. Unless otherwise stated, maintenance and/or modification procedures herein are not " Factory Approved " and their use may void manufacturer warranties. Ideas and opinions are those of the contributors, and no authentication or approval is implied by the editors, publishers or the LMFC, who assume no liability for the information contained herein. So there!