

The Free Flighter
Journal of the NSWFFS Inc
March 2016



Our Bruce with his F1J
At Richmond

Minutes of General Meeting

15th January 2016

Meeting opened: 7.30pm President Terry Bond in the chair.

Present

Barry Lee, Terry Bond, Michel Towell, Ed Mahoney, Geoff Potter, Jim Mc Fall, Roy Summersby, Gary Pope, Reg Towell, John Corby, John Pennells, Goran Milosavljici

Apologies

Tahn Stowe, Phil Warren, Wally Bollinger,

Guests

Bob Young, George Atkinson

Minutes of previous meeting:

Minutes accepted as a true record: moved Ed Mahoney, sec Jim McFall

Business arising:

West Wyalong House Insurance is now in place.

Correspondence In:

Fly Paper Nov, Dec, Jan

Correspondence Out:

The Free Flighter January, The Fourth Body, Graham Hutchinson

Treasures Report

OPENING BALANCE - 1 November 2015

CBA	\$16,814.95
ST George	\$14,427.68

\$31,242.63

Add : DEPOSITS

Interest	\$4.43
Accom	\$180.00
Memberships	\$270.00
Donations & Friends of WW	\$330.00
Photo Books	\$160.00
	\$944.43

Less : PAYMENTS

MAAA - Memberships	\$210.00
WW Flooring, Walls, Doors, Locks, etc	\$3,575.80
WW - Various works per Quote	\$10,492.90
WW Electrical	\$766.74

Editorial Mar 2016

Hi team, more news but nothing we did not expect. ANSW could not accept the unification solution and have yet again bucked the system. On 28 Feb there was a teleconference which involved three motions from the president of the MAAA basically delaying the process and asking for a mediator and legal opinion. We voted against them but they were carried by the presidents of the other states. We wait again until the ANSW try to get their wicked way.

On a good note Roy and I went to WW this last weekend to secure the ceiling in the lounge room. The ceiling and the huge plaster design was on its way down. We had previously asked the 'Giprokers' who fixed the ceiling in the dining room to repair the ceiling in the lounge room. We now understand why they left it. It was hanging by a thread. The ceiling had dropped by about 100mm and really was on its way down. Roy and I managed to 'acro-prop' the ceiling up and screwed it into place. Over the next two days we sprayed the ceiling and the wall to the picture rail. Roy and I spent a significant amount of time just looking up at our finished work. Just like the blokes in the colour bond ads!

A short on this month, we have a lot coming on . Roy will explain below.

Terry Bond
President NSWFFS

This Meeting Friday 18th March

There will be plenty to talk about, as most of you know there was a teleconference held a few weeks ago regarding the unification, yes that's right just when we thought it was all over we are back where we started.

Good things to talk about are as follows.

AFFS Champs and SCC are coming up in three weeks time. 8th to 17th April

Victorian State Champs 29th April to 1st May

World Control line champs in Perth. 4th to 13th May

Free Flight Nationals 28th May to 2nd June

Scale weekend July 2nd & 3rd July

As you read this newsletter you will see some photos from the 1948 Nationals. When you are in the house at West Wyalong next, take a look at the trophy which was won by Col Williamson at those Nat's in 1948. Are there any more of hidden trophies from 1948 out there?

Terry and I spent last weekend down at West Wyalong fixing and painting the lounge room ceiling. This job was getting desperate; it had dropped about seventy millimetres and could have gone all the way to the floor if we hadn't caught it in time.

The shop has plenty of ether in stock now, so let me know your needs

Roy Summersby
Secretary NSWFFS

HISTORY OF R/C MODELLING IN AUSTRALIA

Radio control has been around since Nikola Tesla demonstrated a remote control submarine in 1898. World War II saw increased development in radio control technology. The Luftwaffe used controllable winged bombs for targeting Allied ships. During the 1930s the Good brothers Bill and Walt (USA) pioneered vacuum tube based control units for R/C hobby use. Their "Guff" radio controlled plane is on display at the National Aerospace museum. Ed Lorenze published a design in Model Airplane News that was built by many hobbyists.

Ross Hull (1902 – 1938) was an Australian radio pioneer who worked mainly in the USA. In the modelling world he was a radio control pioneer credited in 1938 for having invented the rubber driven escapement. In 1936 and 1937 he flew the world's first successful R/C sailplane, mainly as a slope soarer. Sadly he was electrocuted in 1938 working on an early TV broadcasting system.



Tesla R/C submarine
1898

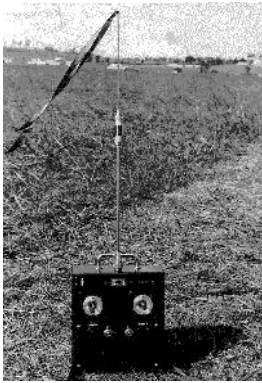
Dr Bowen of the CSIRO used radio controlled gliders released from high altitude balloons to gather atmospheric data and samples and return them safely to North Head Sydney in the 1950's. These looked more like V1 Buzz bombs with rectangular aluminium covered wings and tailplanes, than our modern high aspect ratio gliders.

The first radio control contest ever held at an Australian Nationals (1950) was won by Jack Hearn of Hearn's Hobbies fame. Here in NSW one of the first R/C contests held was at an MFC meeting and was won by Bob Young.

John Marquette started Advance Hobbies in 1958 and subsequently started producing R/C equipment under the Silvertone label. John produced single channel superregen valve equipment to begin with and later went on to produce superregen 10 channel valve reed equipment.

These were the first commercial R/C units produced in Australia. Silvertone eventually went on to produce transistorised S/C, reed and proportional systems gaining world-wide acceptance in the process. Silvertone is still in business today (Wagga) manufacturing UAVs.

Over the years there were many starters in the Australian R/C equipment manufacturing field but competition from imports was brutal and most did not last long. Panzer and PSA were probably the two strongest and longest lasting. Kraft had an assembly and service centre in Geelong which ran for many years under Barry Angus and Brian Green.



*Prototype Silvertone Mark I
Digital Proportional TX.*

Modern reliable radio control as we know it today really began with the advent and wide spread availability of the digital proportional system in the late 1950's and early 1960's. Originally designed by Doug Spreng and Dan Mathis and sold as the Digicon system this was followed by Bonner and Hoover's F&M Digital 5 systems USA).

Silvertone in Australia produced their first digital proportional prototype system in 1965 and their first production digital system in 1966 as the Silvertone Mark III. The Silvertone digital proportional line ended with the Mark 22, the last of which was produced in 2013, almost 50 years to the day after Bob Young purchased Silvertone from John Marquette in 1963.

By 1970 reliable digital systems both imported and locally produced were freely available at very reasonable prices and thus began the modern R/C era. One of the big attractions of the Digital proportional sets was the fact that these sets come ready wired with plug in servos and rechargeable Nicad batteries. Gone were the days of tedious hand wired reed and single channel systems with the need to replace dry batteries every week.

The early digital systems were almost exclusively Pulse Position Modulation systems (PPM) but some later variations swung to Pulse Coded Modulation (PCM). The RF modulation in modern PPM and PCM sets used FM as against the early AM (Amplitude Modulation).

The most recent systems have now moved on to Spread Spectrum or Frequency Hopping transmission on 2.4GHZ. In the opinion of this author Spread Spectrum as against Frequency Hopping being the better of the two modern systems on the grounds that the recovered recompressed Spread Spectrum signal reduces incoming noise to almost zero allowing the modulated data to be recovered from well below the noise floor, resulting in a much cleaner recovered digital signal.

Thus in the span of a single lifetime modellers have seen R/C modelling progress from the most primitive systems imaginable to systems of such profound complexity and reliability that the complexity of the modern R/C equipment is almost beyond the understanding of the average modeller. They are indeed marvels of modern technology. And this is only the beginning. What will we see in the next 50 years?

Bob Young.

Contest Report

1/2 hour scramble @ Richmond on Sunday 24 January 2016

Under gloomy skies and on soggy ground, the Scramble got under way at 8.05 am. First away was Andrew Heath with one flick & then a launch before 2 seconds had elapsed ! That set the scene for the next half hour. All had great fun. After many attempts, Matt Hannaford finally got his model to strike the CD at about the 20 minute mark. The little diesel didn't do much damage to itself or the CD. We had our usual share 'oops, forgot to set the timer' and 'it wasn't doing this last time?!' as some model exceeded expectations and some models disappointed their owners. Bruce had the great good fortune (?!) to receive plenty of encouragement from our President. It nearly worked as Bruce was only 28 seconds away from a place !

All had a good time. The end result was ;

Andrew Heath - 1,033
Tahn Stowe - 901
Aaron..... - 801
Bruce.....- 774
Matt Hannaford - 731
Peter Scott - 619
Andrew..... - 316

1st, 2nd & 3rd received some nice framed aircraft prints. The rest were congratulated on having a go.

NSWFFS SHOP GOODS

AT THIS TIME WE HAVE THE FOLLOWING

Contact Roy if you need any of these items.

He will bring to the flying field or to the meeting

New Item 3/32 Tygon tubing (lasts for ever)

Plenty of Ether now in stock

Esaki light tissue	\$2.00	Clear Mylar 10 meters	\$10.00
0.002 Carbon fibre	\$26.00	Aluminised Mylar / meter	\$1.00
P30 props	\$6.00	5m Telescopic streamer pole	\$30.00
3/64 prop shafts	.65	Rubber Lube 100ml	\$4.00
3/64 Nylon bearings	.65	Ether 1 litre (you supply container)	\$23.00
Teflon washers 1/8 X 0.032" hole	.45	Nitro Out of stock	\$22.50
Brass washers 1/8 X 0.050" hole	.45	Castor Oil 1 Litre (out of stock)	\$10.00
P30 front end kit	\$7.20	Some carbon spars (round & square)	
Dyna Grip Contact glue 50ml	\$2.00	Diesel fuel tube 2.0m (bike valve)	\$7.50
F1J Timers, suit most power models	\$75.00	3/32 Rubber 500grams	\$30.00
These timers have been checked and modified by Jon Fletcher to eliminate skewing of spring		Dremel chucks	\$7.00
Texas fuel cut offs (glo or diesel)	\$20.00	Cutting tools (Diamond wheels)	
Pilots very lite	\$5.00	10 different sizes	\$20.00
Wheels very lite	\$5.00	Cutting tools (circular saw blades)	
Rock Maple bearers 3 sizes / 300long	\$4.50	6 different sizes	\$15.00
		Tygon fuel tubing 1 meter	\$3.00



RICHMOND SCALE RALLY

2nd & 3rd JULY 2016
TRANS TASMAN F4A



David Hope—Cross Trophy
Reg Jude Rubber Trophy



Saturday:

Scale Flying
& Static Judging

Saturday Night:

Buffet Dinner

Sunday:

8.00 am Half Hour Power
Scramble
Control Line & Free Flight
Fun Fly
BBQ Lunch



CONTACTS:

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NSWFFS Contest & Fixture Calendar 2016

Date	Event	Venue	Time	C/D
Mar 20	Combined % + HLG & C/G	Richmond	7.00am-- 1.00pm	Jim Christie
Mar 27	Final Practice for AFFS & SSC	Richmond	7.00 am	
Apr 8-14	AFFS Champs	Narrandera	See AFFS	Program
Apr 16-17	Southern Cross Cup F1A,B,C	W Wyalong	8.00am-3.00pm	Dave Thomas
Apr 29 May 2	Vic State Champs F1 A,B,C, G,H, J O/ Rubber O/power, P30, HLG	See FFDU for Vic Program	Vin Morgan 0393872531	Marong
Apr 30 & 1	Veterans Gathering	Muswellbrook		
May 7-13	World Control Line Champs	Perth		
May 15	State Champs Scramble, +Combined %, Control Line Flying BBQ Lunch	Richmond BYO Food	7.00am-1.00pm	Terry Bond
May 20	General Meeting	Harris Park	7.30 pm	
May 28 June 1	69 th National Free Flight Championships. All normal events	W Wyalong A.B. Field	See separate pro- gram	CDs for different days
June 2-4	NSWstate Champs F1A,B,C,O/P,O/R	W Wyalong	8.00am-1.00pm	Dave Thomas
July 2-3	Scale Rally Weekend. Scale comp Sat 2nd, Sun 3rd ½ Hour scramble, Fun Fly C/L fly- ing & BBQ Lunch	Richmond BYO Food	7.00am till dark Trans Tasman	Tahn Stowe
July 15	General Meeting	Harris Park	7.30 pm	
July 24	Combined %	Richmond	7:00am – 1:00pm	Jim Christie
Aug 7	Combined %, Multiple Entries.	Richmond	7.00am- 1.00pm	Terry Bond
Aug 21	Scale Rally, P 30, Combined Vintage	Richmond	7:00am – 1:00pm	Tahn Stowe
Aug 27-28	Cowra Oily Hand Weekend	Cowra		
Sep 11	½ Hour Scramble + Tomboy Mass Launch. Fuller Day, Stomper, Dixielander, Zoot Suit. B-B-Q Lunch	Richmond BYO Food	7:00am – 1:00pm	John Corby
Sep 16	Annual General Meeting	Harris Park	7:30 pm	
Sep 18	Combined % 5 flights	Richmond	7.00am - 1.00pm	Matt Hannaford
Oct 1-2-3	NSW State Champs FIG,H,J + Vintage Power, Rubber,& Glider, ½ hour scramble	W. Wyalong A.B.Field	7.00am- 1.00pm	Roy Summersby
Oct 16	Combined % Multiple Entries	Richmond	7:00am – 1:00pm	Gary Pope
Oct 29 & 30	Wings Over West Wyalong + Scale Rally all disciplines FUN FLY	W Wyalong	7.00am- till dark	Plenty of room for everyone
Nov 18	General Meeting	Harris Park	7:30 pm	
Nov 27	FIG, H J, (Combined)	Richmond	7:00am – 1:00pm	Gary Pope
Dec 11	½ Hour Scramble, Combined Vintage with SAMS & Fun Fly.	Richmond BBQ Xmas	7:00am – 1:00pm Lunch BYO	Terry Bond FOOD
Notes	1. All scrambles start as close to 2. Sport FF, CL,& RC Flying welcome 3. BYO FOOD, DRINK & CHAIR to	8.00 am as on A.B. Field ALL BBQs at	Possible at W Wyalong Richmond	Plenty of room