

Official Newsletter for Free Flight Scale flying in New Zealand
produced by the Free Flight & Control Line Scale SIG



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Where to fly

Outdoor Free Flight Scale

Northland

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Auckland

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Free Flight Club
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There are undoubtedly other fields elsewhere in the country where free flight and control-line scale is flown or may be flown.

Please let me know if you would like your details added to this list

I will attempt to compile a list of indoor venues in a future newsletter - Ed

Events coming up

New Zealand Nationals

December 29 2019 - January 6, 2020,

Morrinsville indoor Event

October 6

Richmond NSW Free flight Scale Rally

July 6-7

Trans Tasman F4A Free Flight Power Scale
Challenge Event 2020, Richmond, NSW,

If you would like to take part in this event please contact
Stan Mauger PH 09 575 7971 re selection and trials
details



Mike Mulholland's Borel Hydravion on the judging table at a Trans Tasman event Richmond, NSW

A periodic publication with news of interest to free flight and control line scale modellers in New Zealand and beyond.

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Special Interest Group
of Model Flying New Zealand

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The opinions expressed in this newsletter are not necessarily those of the editor or the Free Flight & Control Line Scale SIG or of Model Flying New Zealand.

COVER PHOTOGRAPH

Jack Godfrey seen launching his Corben Baby Ace in a pre-contest flight at a Morrinsville Indoor Scale and Free Flight contest. See the notice further on in this newsletter for details of this year's event there.

Editorial

Welcome to the first issue of Scale News, the Free Flight & Control Line Scale SIG's new Newsletter. While scale events are regularly reported in Model Flying World Magazine, the MFNZ website and in local club newsletters, the intention of Scale News is to communicate scale matters more specifically to scale flyers. We hope that you will support this new publication with reports and announcements of indoor and outdoor scale events in your area and send us news of what you are building and flying as well as photographs and news of processes and building techniques that may be of interest to scale flyers. It is hoped that in some way this publication may bring together the interests of scale modellers and help to increase the support for free flight and control line scale flying. Issues will include both news of local free flight contests and those further afield. For details of scale events coming up refer to the calendar on p2.

I hope that this newsletter will help communication between free flight scale enthusiasts at a regional level, as well as nationally. **To this end, please send in details of flying sites and contacts if you fly any free flight or control-line scale classes in your area.** Ultimately we hope to be able to list all sites where this SIG's classes are flown.

This is a start, but with your support and interest I am hopeful that this will grow into a vital link to others sharing an interest in Free flight scale and control-line scale modelling and flying. I hope that you all enjoy this new newsletter.

Stan Mauger



Probably a record. Angus Macdonald's Nesmith Cougar, still winning contests at forty years old.

Free Flight Scale Days

Morrinsville Indoor Days

Morrinsville indoor flying days started in 2016 and have brought together flyers from all over the North Island and overseas contestants as well. This event is now well established, but more flyers are always welcome. The day combines free flight events and scale classes. This year Hangar Rat, Modelair Hornet and Hand Launched Glider will be flown in the morning and scale classes including Peanut Scale, Open Rubber Scale and Kit Scale in the afternoon. The hall is large and an ideal venue for these events, so come and join us.

Karaka, Auckland, Sundays

There is a small group of flyers that fly regularly at the Karaka sports centre most Sundays. The contact is Keith Trillo. See the directory of page 2 for contact details.

Hoteo Farm Auckland, Sundays

There is a small group of flyers that fly on the farm. If you would like to join them, contact Paul Evans to check on whether there will be flying, and for possible assistance with travel. See the directory of page 2 for contact details.

Please email the editor with details of your local free flight or control line field if you fly free flight or control line scale.

Free Flight Scale Overseas

Richmond Scale rally, NSW

Where else in the Southern hemisphere can we rely on calm weather essential for free flight scale flying? The tally of spectacularly calm early morning flying conditions at July Richmond weekends is up to ten or so over the last eleven years, amazing as it may be. This year's scale event will be NSW State champs for free flight scale and Scramble (our aggregate or 'aggie'). The first few flyers are usually on the field and flying models while the morning frosty mist is lifting, but there is usually enough calm weather for getting flights in, until well into the afternoon.

In the early days of Australasian free flight scale get togethers like these back in 2006, there was just a handful of flyers on the field. The weekend has now grown into a much better supported event, now that it is regarded as a rally. It also attracts its share of spectators.

There is a good transport link from Sydney to Richmond and Windsor where New Zealand flyers tend to stay. Contact Stan Mauger if you would be interested in attending either as a flyer or spectator.



LEFT: Paul Evans launching his Luton Minor during a relaxed morning of scale flying at Hoteo

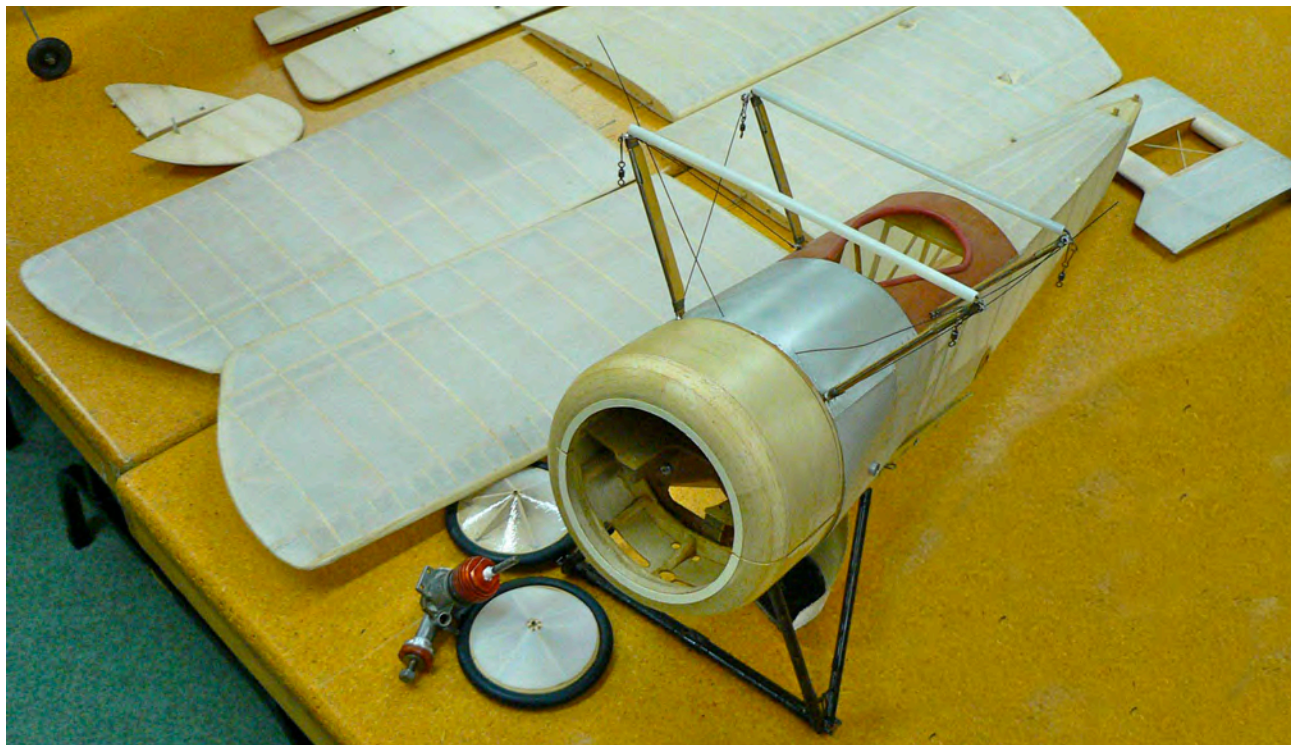
ABOVE: Don Spray attending to the diesel in his Curtiss Robin at a recent Richmond Scale Day

New Event

Memorial Scale

A new class for older models

Further to several requests from scale modellers, a new class has been created to enable models built by someone else to be flown in a new flying only event. This caters for modellers who have been given scale models from others often as bequests from modellers who have died or who are too elderly to fly them, but previously had no class to fly them in. This will be offered as an unofficial class at the next Carterton Nationals.



A Sopwith Pup built by Brian Crocker, now in Stan Mauger's care. Very much a "must complete as soon as possible" project!

Kit Scale

Entry Level Kits

VMC Cessna Bird Dog and Cessna 140

By an arrangement with Andrew Darby of VMC in the UK, these two scale subjects will be available as kits for those starting in Kit Scale or simply wishing to build them. At this stage it is hoped that the models will be entered in Kit Scale at Morrinsville and also at the Carterton Nationals at the end of the year. If you would like a kit, please contact Ricky Bould (Ph 09 478 8949).



VMC Cessna Bird Dog



VMC Cessna 140

Free Flight and Control Line Scale Rules

As we sometimes get requests for where to find our rules, here is a guide. Any national rules from the NZMAA rule book were superseded a number of years ago when the SIG adopted FAI rules for all classes except Kit Scale. Here are the details of our events and where to find the associated rules.

1. F4B Control-line scale

This is flown to FAI F4B rules.

2. Profile scale

Uses F4B for flight judging. No documentation or static marks

3. Outdoor Free flight power scale

Flown to FAI F4A. Electric free flight scale models exceeding the maximum power limit in the low power scale class of 110mAh may also be flown in this class.

4. Outdoor Low power scale

This includes CO2, small electric, Jetex. Flown to F4E rules

5. Outdoor Rubber scale

Flown to F4D rules, with no flying mark for landing.

6. Outdoor Kit Scale

Flown to the SIG rules available under rules on our link on the MFNZ website.

7. Indoor Peanut scale

Flown to F4F rules

8. Indoor Rubber scale

Flown to F4D rules.

9. Indoor Kit Scale

Flown to the SIG rules available under rules on our link on the MFNZ website.

Finding your way around FAI F4 Free Flight Scale rules

A link for the FAI rules links (as well as other SIG rules) is already provided on the Model Flying NZ website under FF & CL Scale. Listed below is where to go from there. It is not as difficult to find the relevant sections in the FAI rules document as one might imagine, even though its size is daunting. Here is what to do.

- Having entered <http://www.fai.org/fai-documents>
- Go to Sporting Code
- Select Section 4 - Aeromodelling,
- Select Sporting Code Section 4 - F4 Scale

For general static rules - Go to pages 10-14

For F4A Power Scale - Go to page 86

For F4B Control line Scale - Go to pages 15-18

For F4D Rubber Scale - Go to page 90

For F4E CO2/Electric- Go to page 88

For F4F Peanut Scale - Go to page 92

There is static judging guide on pages 26-29 and a flying judging guide on pages 78-79. Note that the page references stated here apply to the current FAI Sporting Code document and may change in the future.

For an introduction FAI free flight scale classes

In Google search *February 2016 CIAM Flyer (01-2016) - International classes for free flight scale model flying competitions around the world.*

View on screen or download as a pdf.

From your SIG

Revisions to FAI F4A rules

Background

Changes to the FAI F4 rules governing Free Flight Scale classes were seen to be needed because

- The F4A rules currently include electric powered models but do not specify maximum power limitations.
- The current limit of 10cc engine capacity for F4A Free Flight Scale seems excessive and supercedes the earlier limit of 2.5cc.

Another concern has been that F4 rules stand apart from the well proven BMFA Free Flight Scale rules. With some minor changes to k factors and rule details both could be aligned.

Changes proposed

Ricky Bould secretary of the Free Flight and Control Line Scale SIG has been working with the UK Scale representative on FAI with rule drafts to address the following changes:

- A limit of 200W for electric motors in F4A Power Scale class.
- A requirement that electric motors have a cut out device.
- IC engine size be limited to 2.5cc.
- F4D Indoor rubber class rules also be applicable to outdoor with revised weight limitations.
- F4E includes small electric motors up to 50W maximum power.

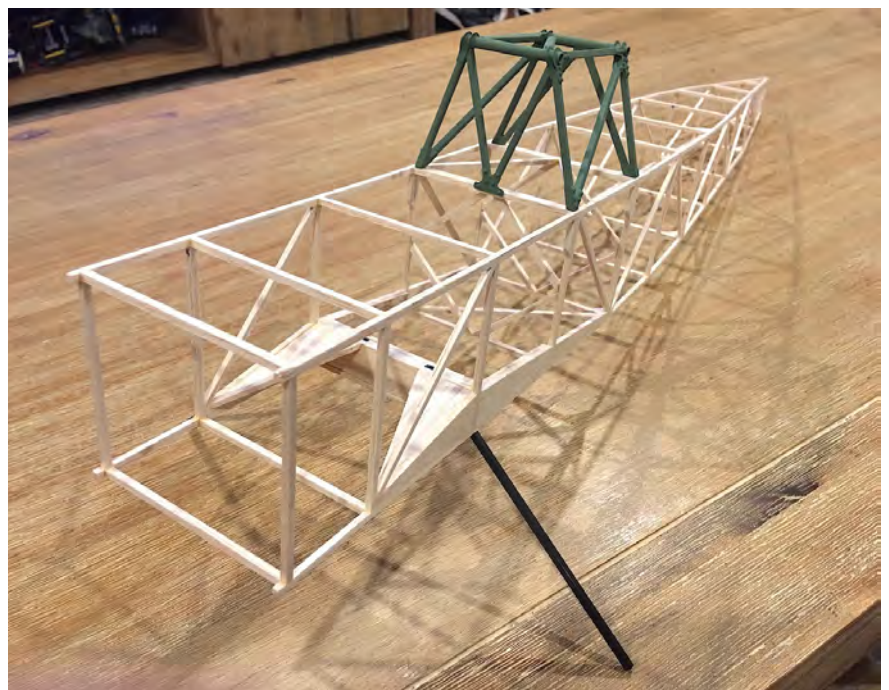
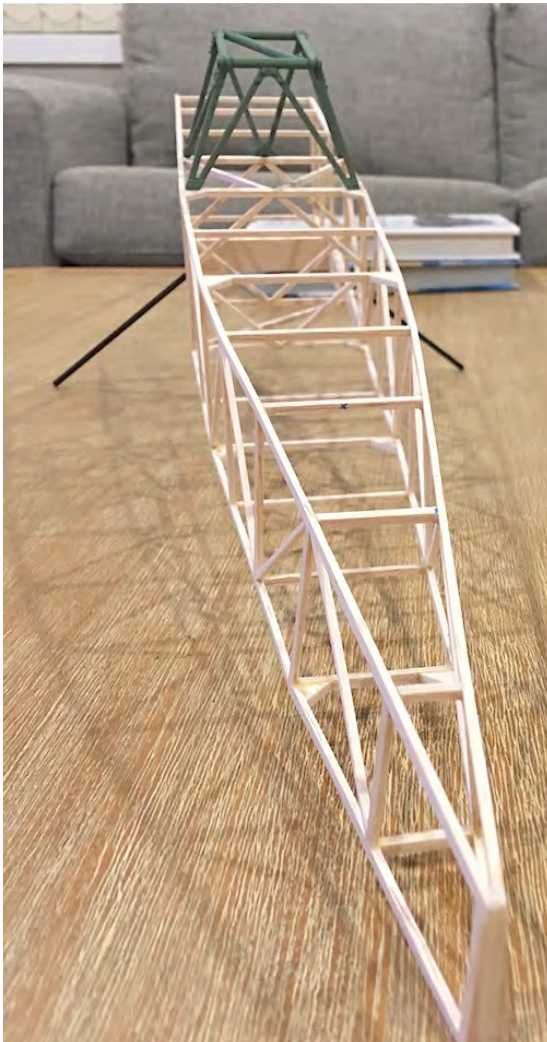
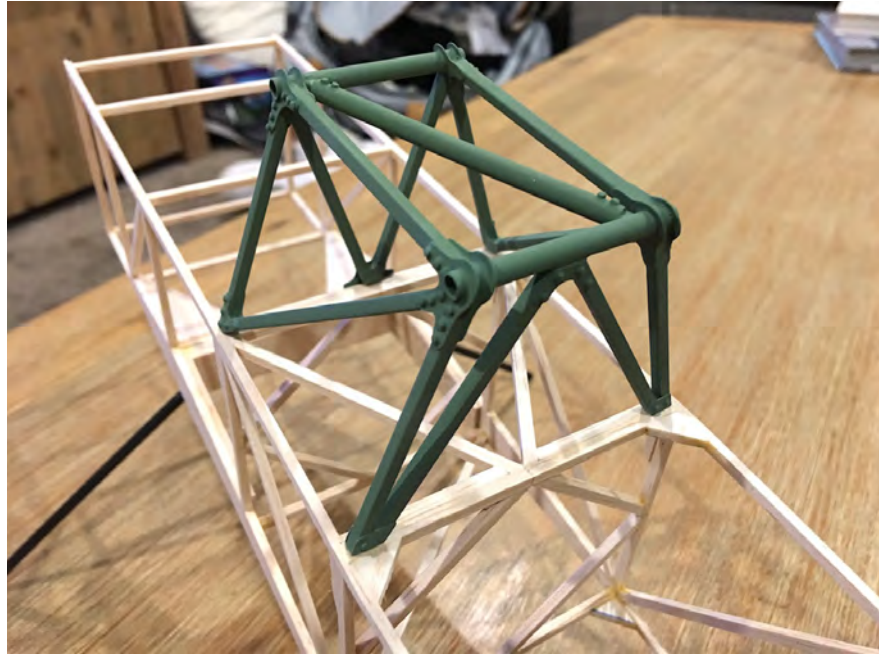
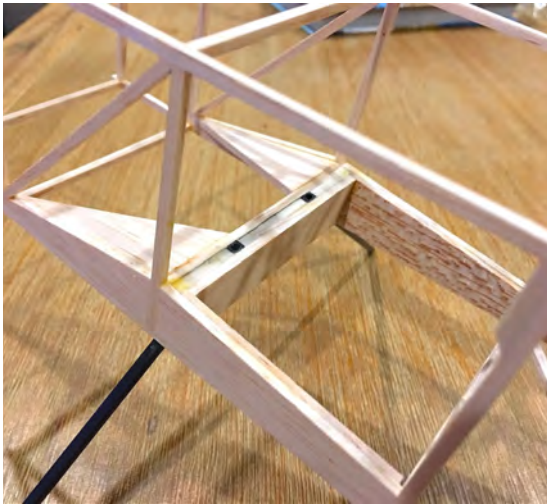
*If you would like more information contact Ricky Bould
09 4788949*

Building project

Mike Mulholland's 50" Westland Lysander

Mike's model is being built for rubber power. The project started as a model built from the APS Howard Boys plan. However, some refinement of scale details and proportions have been made by referring to the Aeromodeller scale drawing published in the 1950s. Over to Mike . . .

Most model Lizzies are built as keel and former construction but the real aircraft has a welded and bolted steel tube structure with stringers and formers superimposed. The large glasshouse only has a light framework and this cabane structure which actually supports the wings bolts on top of the top longeron. Because it's highly visible through the canopy it needs to look real. Structure of the model cabane is 2.4 square basswood (available at Mitre 10 along with other useful sizes). Fishplates are 10 thou styrene and compression tubes are 5/32 aluminium tube. All is cyano'd with the fishplates providing mechanical strength to the joints



ABOVE: Views of the fuselage structure so far. The green portion is built from 2.4mm square bass with aluminium tube and styrene fishplates, all cyanoed together.

Nationals planning

FF, FF Scale and Vintage SIGs have coordinated planning with each other to provide a provisional programme for the next Nationals. Lets hope that we all benefit from being able to be close to other SIG's events and being able to fly in them. The table below is from AVANZ News, our thanks to Bernard Scott for putting it together. The F4A and Kit Scale events have been added. Control Line Scale will be held in conjunction with other control line events.

FREE FLIGHT EVENTS					
2019-2020 Nationals					
Rego Day Monday December 30th	Day 1 Tuesday December 31st	Day 2 Wednesday January 1st	Day 3 Thursday January 2nd	Day 4 Friday January 3rd	Day 5 Saturday January 4th
Free Flight Field	Vintage Rubber	Nostalgias Power	F1A-B-C combined	Open Power	P30
	Vintage Power	Nostalgia Rubber	Kiwi Power	Open Rubber	Mini combined
	Vintage Glider	Classic Combined P/R/G		Open Glider	E36
	Vintage Precision	Small Power	(Assumes this day is a World Cup event)		
		Vintage Catapult			
Free Flight Scale	F4A Free Flight Power Scale Kit Scale	F4D Free Flight Rubber Scale CO2/Electric Scale	Any postponed FF Scale outdoor	Any postponed FF Scale outdoor	
Evening	Aggregate	H/LG / Cat glider Radian, Social function	Peanut, Rubber scale Kit Scale	IHLG, Hangar Rat	

Free Flight contest day

Indoor flying at Morrinsville

Sunday October 6, 2019

- **F4D Rubber Scale, F4F Peanut Scale**

Flown to FAI rules.

Refer to link on MFNZ website under Scale FF & CL SIG

- **Kit Scale**

Flown to rules on MFNZ website under Scale FF & CL SIG

- **Hangar Rat, Hand Launched Glider**

MFNZ rules

- **Modelair Hornet**

AMAC rules

Come and join us

Venue: Westpac Stadium Hall, 21 Ron Ladd Place, Morrinsville

Programme:

- 9.45am Arrive and unpack ready for start time
- 10.00am Hangar Rat, HL Glider and Modelair Hornet Scale static judging until 12.30pm
- 12.30pm Peanut Scale, Rubber Scale, Kit Scale
- 3.45pm Prizegiving.
- 3.55pm Hall vacated.

Fliers Entry: \$20.00

Spectators welcome

Contact Stan Mauger 09 575 7971, stanm09c4@gmail.com for Hornet rules and more information



Organised by the Auckland Model Aero Club Inc
in conjunction with the Scale Free Flight & Control Line SIG