

MINIATURE 
AERO SPORTS
NEW SOUTH WALES INC.



The replica 1950s hobby Shop set up in the AMA National Model Aviation Museum at Muncie, Indiana - truly a trip down Memory Lane. More inside on page 22.

Photo Rob Masters (WPMAC)



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Diary Notes

Next MASNSW Meeting

Friday 14th December 2012, 8:00pm at Garden Terrace Room, Workers Parramatta, 163-165 George Street, Parramatta.

Following MASNSW Meeting

Friday 8th February 2013, 8:00pm at Garden Terrace Room, Workers Parramatta, 163-165 George Street, Parramatta (Note - no meeting in January).

Newsletter #352 (January/February 2013) deadline for submissions Tuesday 15th January 2013 (Note - there is no January Newsletter)..

Contacts

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Please forward any changes of mail or email address together with your AUS Number directly to the Registrar



From the Editor

I have just arrived back from an enjoyable 5 week trip to the US. I can really pick it - my wife and I were travelling through the north east New England states in an RV when it was announced that Hurricane Sandy was bearing down on the area and to prepare for the worst. As it turned out, we were in Vermont when it struck and were very fortunate in experiencing only light rain and some heavy winds throughout the night. Power to the campground we were staying at went out for a few hours when some trees just down the road fell over and took out the overhead wiring. The

emergency crews soon had that to rights and all in all, compared to the terrible impact to the New York and New Jersey areas we got off remarkably lightly.

Whilst in the States I managed to get in visits to the AMA National Model Aviation Museum in Muncie, Indiana and the National Museum of the US Air Force in Dayton, Ohio - both truly memorable sites and well worth a visit if you ever have the chance. Whilst at Muncie I had the opportunity to chat with Michael Smith, the Museum's Director. It was interesting to note that



they are having similar problems in attracting younger modellers to our hobby. Michael was most interested to hear about our procedures with regard to training and qualifications (Bronze and Gold Wings) and in particular the Flight Instructor training being pioneered by MASNSW. At this stage they have nothing similar. Also interesting is that there is no form of heavy model inspection required until aircraft reach a weight of 55lb (23kg).

Only room for a few pictures on pages 24 & 25 for this issue but I have plenty up the spout as well as those from the US Air Force Museum and will post a lot more in future editions.

Joseph Frost reports on the Warialda Fun Fly and his new FlyFly Mirage 2000 on page 21 and Alistair Heathcote reports on the Omarka (NZ) Aviation Heritage Centre in Scale Matters on page 25.

Lastly, the answers to last month's Find a Word puzzle are on page 31 - how did you go?

Well, that's me for now.

Happy flying – Rob M



Miniature Aero Sports NSW Inc

MINUTES

Business Meeting
Workers Parramatta
9th November 2012

Meeting Opened 8.05pm

Attendance: D Lewis WPMAC, K Barnes PRCAC, B Thrift CVRCMASC, M Stone HSL, D Lacey SSME, S Norrie NSW SAS, E Ashley Cootamundra, D Costelloe QFS, T Nolan ROW

Visitors:

Apologies: K Vella PRCAC, B Bishop CMAC, G Atkinson WRCS

Minutes: Motion that the minutes of the meetings held on the 12th of October 2012 as distributed in the Newsletter 350 be accepted as a true and accurate record of that Meeting.

Moved: CVRCMASC **Seconded:** Cootamundra **Carried**

Business Arising: Nil

Correspondence: (N.B. Items of correspondence with one * are for information, items with two ** require a decision.)

Correspondence In:

From MAAA:

- M 1.1 2012-13 MAAA Directory
- M 1.2 MOP Amendments, (MOP 19-Display Procedure and 58- 2.4 GHz Equipment)
- M 1.3 Finalisation of Close Field MOU (item C 2.1 and C 2.2)
- M 1.4 Details on the Special Finances Conference, and Agenda
- M 1.5 CIAM Flyer
- * M 1.6 Advice on the provision of information CASA – confidentiality of sources
- M 1.7 Minutes from the Special Finance Meeting
- M 1.8 Minutes from MAAA Executive October meeting

From other than MAAA :

- C 2.1 J.McGuffin CMAC, Close Fields MOU
- C 2.2 D. de Vries, SSMAC Close Fields MOU
- * C 2. Norman Young, BCRCFC, Insurance enquiry re building insurance by MAAA. (numerous)
- * C 2.4 Myles Murray, NBSSA, Insurance question
- C 2.5 G. Hoy, CMAC advice of relieving Club Secretary
- ** C 2.6 A Lowe, HSL NSW Thermal Championship
- C 2.7 G. Bridgland, SSC Member rejoining enquiry.



- C 2.8 G. Tracey, Flyer for model flying display in Gatton QLD Feb 2013
- C 2.9 J Daley, FW25 and Turbine Inspector application
- C 2.20 Received completed Large Model Permits to fly forms from the following:
K Woods LRMFC, P Giles JFA(NSW), A Howard WPMAC, A Howard WPMAC,
J Frazer CMAC, J Price RAAFMAC, B Baldwin CMAC, B Kirkwood REBEL FC, K King WRCS,
B Hicks CMAC, S Begg WRCS, J Owen CMAC, C Mitchell HMAS

Late Permits

- C 2.21 Received Cancelled Large Model Permits to fly forms from the following:
Nil
- C 2.22 Newsletters Received:
MASA September 2012
MASA October 2012
Bega District Model Club September 2012

Late Correspondence:

Correspondence Out:

To MAAA:

- M 3.1 Advice to MAAA on 12 month review of Close Fields MOU (items C 2.1 and C 2.2)
- M 3.2 MAS questions for discussion at Finance Teleconference.

To other than MAAA:

Nil

Business Arising from Correspondence:

- M 1.6 The Executive raised the issue of CASA releasing the details of members who have assisted them with their enquiries. We have received advice from CASA that they will now take far more care and attention to attempt to protect the identity of any people who assist CASA.
- C 2.3 The enquiry relates to our insurance and what cover the MAAA have in regards to buildings etc. Advice was sought and has been provided to the effect that MAAA Insurance does not insure buildings, lawn mowers, that is the responsibility of the land owner or tenant. Our Insurance (MAAA) only covers any damage that may be caused by a model aircraft to any building, car etc.

Motion that the inward correspondence is accepted and the outward correspondence be adopted.

Moved: NSW SAS **Seconded:** SSME **Carried**



Reports

Treasurer Bob Bishop

Business Arising from the Treasurers Report: NIL

Moved: SSME **Seconded:** HSL **Carried**

Other Reports:

President Bob Carpenter

The MAAA Strategic Planning session is scheduled for the 1-2 February 2013 and is being conducted in Adelaide. It is proposed that The President and the Vice President will attend to represent MAS NSW. This was begun at the MAAA Conference in May this year and it is planned to have a version for consideration and sign off at the next conference in May 2013.

The annual MAAA Special Finance conference was held on October 28 where the Auditors report was tabled and accepted by the MAAA. It also discussed the need to review some of the current funding arrangements/holding that the MAAA have in various accounts. Accounts such as the land account with the absence of any policy surrounding the purchase of land, and continuing to grow and also the Insurance account which is continuing to grow well in excess of annual payouts.

MAS NSW is holding the "Car Boot Sale" that was originally planned for last year and was postponed twice due to weather. This will be held on Saturday 1st December at the RAAFMAC field. The event will be hosted by both RAAFMAC and HMAS. Please bring along any items you would like to dispose of from the Workshop/Shed/Garage/Man cave. There will be a charge of \$5.00 for those selling items with all proceeds to go to charity. We will also be planning some fun events during the day. There will be ample opportunities to fly as well as use the Car Boot Sale, We will inform all clubs by the email system of the details of the event.

Registrar

Dave Lewis

Current Year		New to System	Last Year (Oct 2011 meeting)
Seniors (Includes Pensioners)	2092	142	2105
Juniors	101	27	90
No. of Clubs	86		92
Total Membership	2193	169	2195

Chief Flying Instructor

Bob Carpenter

There is a flight Instructors Course being conducted over this weekend at University of Western Sydney and using the HMAS #1 field at Richmond. There are 5 students and a number of Observers attending.

The next Instructors course will be held in 2013. Any preferred timings please contact Bob Carpenter.



State Flying Field secretary / PRO Steve Norrie

Over the last few weeks we have had four groups use the Cootamundra field.

- NSWAS – Scale Round 5.
- Cootamundra Cup Old Timer Weekend.
- National Air Races – Large Scale Pylon Racing.
- SMAS – Club weekend.

It has been suggested that a rise at the northern end of the main runway be levelled and that a watering system be installed for the runways, these will be investigated.

Our new generator is operating well but unfortunately the refrigerator has seen better days, a replacement unit needs to be acquired.

The building works will commence shortly, the steel work has been delivered and the timber decking is expected in the next week. Brian Speering, the builder, is hoping to complete the construction by Christmas.

The St Johns Wort (noxious weed) will be sprayed during the next week after a delay due to equipment failure and the recent rain.

Other Reports: Camden Valley Scale Day 3-4 October 2012, There was a good roll up of fine scale models and a demonstration of large scale aero-towing done by Don Costelloe, Peter and Felix Nieuwenhuizen.

Motion to accept Reports as received

Moved: PRCAC **Seconded:** CVRCMAC **Carried**



Awards:

Applications received for the approval of MAAA Fixed Wing Power – Bronze Wings:

Simon Nichols	WRCS	71403
David Reilly	CCMAC	76336
Dennie Mackay	CCMAC	76369
Warren Eather	SSSFA	73979
Wayne Black	SMAC	37584
Trevor Brown	HEMFC	71390

Applications received for the approval of MAAA Fixed Wing Power – Gold Wings:

Ivan Bremer	NSW Slope Assn	73691
Steven Thurkett	SSSFA	73955
Brett Penberthy	RAAFMAC	57182
Frank Rogers	PRCAC	44051
Patrick Dardin	FTMAC	73634

Applications received for approval for MAAA Fixed Wing Power Instructors:

No applications received

Applications received for Approval of Commercial Model Aircraft Flying Instructors:

No applications received

Applications received for the approval of MAAA Helicopter - Bronze Wings:

No applications received

Applications received for the approval of MAAA Helicopter - Gold Wings:

No applications received

Applications received for approval of MAAA Helicopter Instructors:

No applications received

Applications received for the approval of MAAA Glider – Bronze Wings:

No applications received

Applications received for the approval of MAAA Glider – Gold Wings:

Stehl Donohue	WSS	71191
Dave Brown	LMAC	7436
Dean Crossingham	HRM	40243

Applications received and approved for MAAA Glider Instructors:

No applications received

Moved: SSME **Seconded:** WPMAC **Carried**

MAAA Inspector Approvals:

Heavy Model FW 25 Inspector Approvals:

Nil received

Heavy Model RW 25 Inspector Approvals:

Nil received



Giant Model FW 50 Inspector Approvals:

Nil received

Giant Model RW 50 Inspector Approvals:

Nil received

Gas Turbine Inspector Approvals:

Nil received

MASNSW POINT SCORE COMPETITION AWARDS 2012:

The following Clubs/Organisations have qualified for the \$50.00 Reward for submitting Point Score Events results within four weeks of the event being run.

Submitted by Dave Lewis:

NSW Scale Aircraft Society	Scale	CootamundraOctober 2012
Society of Antique Modellers	Old Timer	CootamundraOctober 2012
Heathcote Soaring League	Glider	Heathcote October 2012
NSW Pylon Racing	Sportsman Pylon	Richmond October 2012

I respectfully ask that payment be made and forwarded to the Secretary of each of these Clubs.

Motion to accept these awards.

Moved: SSME **Seconded:** HSL **Carried**

General Business:

The first item of General Business is:

1. The next Business Meeting of MASNSW will be held at the Garden Terrace Room, Workers Parramatta, 163-165 George Street, Parramatta on the 14th of December 2012. The meeting to commence at 8.00pm, (2000hrs), All Members, Observers, and Visitors are welcome.
2. From the 21 December 2012 the Executive will be taking a break over Christmas and the New Year. It would be appreciated if all clubs could assist by holding enquiries over till the second week of the New Year. The Secretary and The President will be available for any emergency incidents as required under the MAAA MOPs on their normal contact numbers.
3. At the MAAA Special Finance meeting that was held on the 28 October there was a change to the Insurance excess payable by any member. At the Annual Conference it was increased to \$500, however the amount printed on the MAAA membership card was incorrectly displayed as \$250. Accordingly the excess payable on any claim will revert to \$250 until the next MAAA conference in 2013. Any members that have paid the \$500 excess will be refunded \$250.
4. There was discussion about changes to the Work Safe provisions and their applications to Volunteer Clubs and Incorporated Bodies, re possible changes taking effect on the 1 January 2013. Further enquiries are being made and the Executive will report back to the members at the December meeting.
5. There was continued discussion on the use of a web forum for the club secretaries and this will be rolled out over the next month to enable easier communication with the clubs and provide greater access to MAS NSW Executive for country clubs etc.

There being no further business before the meeting, the meeting was declared closed at: 10.10pm.



MASNSW 2012-2013 Events Calendar

(Compiled 19/11/2012)

- Those Events marked with an * are MASNSW Point Score Events.
- Unless otherwise advised MASNSW Meetings are held the 2nd Friday of every Month.

November 2012

24-25	NSW Pattern / Aerobatics Championships	Illawarra	Richard Knox	0417 483 689
24-25	Seaplanes at Lake Wallace	Wallerawang	Dave Brown	02 6355 7298

December 2012

1	MASNSW Car Boot Sale	RAAF Richmond	Bob Carpenter	02 4577 6612
8	Picton Cup Summer Solstice F5J electric glider event (note date and venue change)	Appin	Richard Solomon Peter Pine	02 4647 6330 02 6676 1437
9	Electric Old Timer event – IMAC	Wollongong	Lou Amadio	02 4228 4906
14	MASNSW General Meeting	Parramatta	Bob Carpenter	02 4577 6612
16	Seaplanes at the Regatta Centre	Penrith	Tim Nolan	0412 173 440
25	Christmas			
26	Boxing Day			
27/12/12 – 3/1/13	Control Line Nationals	Albury		

January 2013

3/1/13 – 8/1/13	Free Flight Nationals	Narromine		
12-13	Seaplanes at Lake Wallace	Wallerawang	Dave Brown	02 6355 7298
26	Australia Day			
25-28	Armidale Sailplane Expo & Elec Glider Nationals	Armidale	Hutton Oddy	0425 285 758
26-28	F5J & LEG at the Sailplane Expo	Armidale	Peter Pine	02 6676 1437
	66 th National Championships Glider & Electric Glider		Rob Watson	02 9872 4192

February 2013

2-3	Alan Brown Memorial Old Timer Event	Orange	Dave Brown	02 6355 7298
8	MASNSW General Meeting	Parramatta	Bob Carpenter	02 4577 6612
16-17	21st Annual Banjo Paterson Scale Rally	Orange	Peter Johnsen	02 6362 9410
16-17	Pattern / Aerobatics	Shoalhaven	Richard Knox	02 4446 1021
23-24	NSWSAS Round 1 Scale	Camden	John Rolfe	02 9734 6288

March 2013

1-3	Giant Scale Rally State Flying Field	Cootamundra	Tim Nolan	0412 173 440
8	MASNSW General Meeting	Parramatta	Bob Carpenter	02 4577 6612
9-10	Pattern APA Masters and Work Champs Selection	Parkes	Richard Knox	02 4446 1021
16-17	NSWSAS Scale Masters Round 2	Metford	John Rolfe	02 9734 6288
24	Blacktown Aeromodellers Club Electric Fly-In	Doonside	John Kastelan	02 9671 2340

April 2013

12	MASNSW General Meeting	Parramatta	Bob Carpenter	02 4577 6612
26-28	66 th National Championships – Pattern	Pitt Town	Richard Knox	02 4446 1021
* 6-7	Pattern / Aerobatics	Illawarra	Richard Knox	0417 483 689



May 2013

10	MASNSW AGM	TBA	Bob Carpenter	02 4577 6612
16-19	Helifest 2013	Coffs Harbour	Scott Lockyer	0488 528 353
18-19	COMSOA Scale Fly In	Metford (Maitland)	Paul Robertson	02 4946 8334
25-26	NSW State Champs - Large Scale	Taree	John Rolfe	02 9734 6288

June 2013

14	MASNSW General Meeting	TBA	Bob Carpenter	02 4577 6612
22-23	Pattern / Aerobatics	Wingham	Richard Knox	0417 483 689

July 2013

13-14	NSWSAS Round 3 Scale	Blacktown	John Rolfe	02 97346288
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August 2013

17-18	NSW State Champs - Stand Off / Open Scale	Richmond	John Rolfe	02 9734 6288
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September 2013

25-29	66th National Championships R/C Scale	State Field	Cootamundra	John Rolfe	02 9734 6288
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October 2013

* 19-20	NSWSAS Scale Round 4	Richmond	John Rolfe	02 9734 6288
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Full sized Piper Cub spotted on approach to the GA airfield located adjacent to the AMA grounds at Muncie.



CIAMFlyer

The introduction
to the Modelaircraft World



No. 5 - 2012

Flying with Solar Power



Solar Impulse of flight pioneer Bertrand Piccard with its huge wingspan equal of an Airbus A340.
Foto <http://solarimpulse.com>

When the days in the Northern hemisphere shorten and the sun becomes more elusive, we like to remember the wonderful light and warmth of the sun. Solar energy is one of the foundations of life and humankind's most important energy source - both in the past and in future

The first pioneers of solar powered flights were model flyers

In sunny California, "Sunrise I", designed by R.J. Boucher, flew at an altitude of 100 m for 20 minutes as early as 1974 and later for three to four hours. The two solar model aircraft "Sunrise I" and "Sunrise II" were huge, with wingspans of around

10 m. At the same time, the two German pioneers of electric flight, Helmut Bruss and Fred Militky, were engaged in designing and building much smaller solar models. In 1976, Fred Militky achieved three flights of 150 seconds and altitudes of up to 50 m with his model SOLARIS. At the 5th International Militky Cup in Switzerland in 1978, Helmut Schenk demonstrated his radio-controlled solar-powered model. It operated without a storage battery but could only climb in a cloudless sky.

Helmut Bruss was a major pioneer and sponsor of solar aeromodelling. As a physics teacher, he was able to inspire numerous youngsters to become enthusiastic about solar flying - both inside and outside school. He also wrote several successful technical books and reports on the subject of electric and solar-powered model aircraft.

Flying with solar power – it's not new

Even the wind that makes leaves swirl through the air, lets birds circle above us and helps gliders achieve rapid climbs is produced through the sun's heat. When viewed this way, flying with solar power goes back to the beginnings of flying. First attempts to supply electrically powered aircraft using photovoltaics date back to the mid-1970s. Today, flight pioneer Bertrand Piccard is even planning a circumnavigation of the world with his manned aircraft "Solar IMPULSE".





Solar powered model aircraft of Fred Militky 1976

Flying with solar powered model aircrafts gains popularity

Whereas the specialists – not all of them named above – were limited by the technical capabilities of the time and were initially rather alone with their developments, the early 1990s saw the beginning of an actual boom in solar aeromodelling. Helmut Bruss, a physics teacher, built solar-powered model aircraft at school and also gave courses. Solar flight events and competitions were held throughout Europe. In 1990, the Graupner company launched the "Solar Uhu" as a model kit. This model used the solar generator to charge the storage battery, a concept that made solar flying possible even when using cheap solar cells. Solar aeromodelling courses for young people were held in Austria, Switzerland, etc.



Solar Flight Workshop for young people 1993

CIAM Flyer 5-2012

Editor: Emil Ch. Giezendanner
editor@modellflugsport.ch



Solar Uhu of Graupner 1991. Kit of a solar powered model aircraft



What will the future bring?

Lately, the solar aeromodelling euphoria has died down a bit, despite the latest technical capabilities such as more efficient generators and electric motors, miniaturisation of electronic

components, modern building materials, etc., that would provide interesting perspectives. In contrast to those involved in model flying as a sport, remarkable developments have been made by scientists in the last few years. For example, the unmanned British solar aircraft "Zephyr" spent 14 days circling the skies of the US state Arizona. However, a flying machine with a span of 18 m can hardly be called a model airplane. The "Sky Sailor", built at ETH Zürich, is much smaller, with a span of 3.2 m. This lightweight plane, weighing only about 2.5 kg, flew for 27 hours at an altitude of 200 to 400 m.



Wolfgang Schaeper is holder of several records. For international scientific studies he uses electric and solar powered model aircrafts. Foto www.mfg-markdorf.de

Rules for solar powered model aircraft competitions see <http://www.fai.org/ciam-our-sport/f5-electric-flight>





66th MAAA Nationals 2013

Radio Control Program

The 66th MAAA Nationals is being hosted by NSW with the Control Line and Free Flight events being hosted by their respective bodies.

Due to the changes in Aeromodelling and the Contest scene MASNSW Inc. is taking this opportunity to provide the Radio Control events across the whole year where they will be managed by the specialist competition bodies.

The following table lists all the events to be conducted with contact details. This will be updated throughout the year via the Newsletter.

A major advantage of this new form of Nationals events is that you will have access to the best in each category with the events conducted by the specialists at a venue of their choosing.

Glider/ Electric Glider	Events
Armidale Sailplane Expo 25-28 January 2013 Contacts: Peter Pine 0407732440, Hutton Oddy 0425285758 Alan Lowe 0416207251	Electric: (Peter Pine) F5J Limited Electric Glider Glider: (Hutton Oddy) Open Thermal F3K F3J
Electric Old Timer	Events
MASNSW State Field, Cootamundra 23-24 February 2013 Contact: Lou Amadio 0405366038	1/2A Electric Old Timer Texaco Open Electric Old Timer Texaco Electric Old Timer Duration Height Limited Electric Old Timer Overall Champion
Pattern	Events
CKS, Pittown 26-28 April 2013 Contact: Richard Knox	F3A Aerobatics Masters F3A Expert Advanced Sportsman



Helicopter	Events
Lake George , Canberra, ACT 4-5 May 2013 Contact: George Atkinson 0414972118	F3C Advanced Novice F3N
Scale	Events
MASNSW State Field, Cootamundra September or October 2013 Contact: John Rolf 0402102512	F4C Large Scale Stand Off Scale Open Scale
Large Scale Racing	Events
MAS NSW State Field, Cootamundra 25-28 October 2013 Contact: Joe McGuffin	Golden Era Inline Golden Era Radial North American AT6 Reno 62cc Red Bull 120 Glow. Red Bull 30 Petrol Formula F1 Formula F2
IMAC (ASAA)	
Location: TBA Date: TBA Contact: Bill Bland	Basic Sportsman Intermediate Advanced Unlimited Freestyle



66th National Championships Glider and Electric Glider 33rd Annual Armidale Sailplane Expo

WHEN: 25th to 28th January 2013

FIELD Location: Drive out Booralong Rd for approx 10km past the University of New England, turn left into Warrane Rd go 4km - cross Saumarez Creek and the grid near the temporary cattle yards on your right (after the creek)- and proceed 1.2km to the single gate on your left. Open the gate and drive through, follow the track to the cars already there.

GPS Reference: Elev 1075m S30deg 26.755' E151deg 31.137'

ENQUIRIES: Hutton Oddy
Email hutton.oddy@skymesh.com.au
Phone 0425 285 758

Event	Date	Start Time	Rules
F3J	Friday 25 th January 2013	9:00am	Modified F3J FAI Rules using electric winches 150 metres to turnaround
Thermal	Saturday 26 th – Monday 28th	9:00 am	Australian Thermal
F5J	Saturday 26 th – Monday 28th	9:00 am	Refer to http://www.aefanet.com
LEG	Saturday 26 th – Monday 28th	9:00 am	Refer to http://www.aefanet.com
F3K	Saturday 26 th – Monday 28th	Around noon	F3K (refer FAI Rules)

Additional Notes:

F3J Fly-offs will comprise 3 rounds commencing around 5pm

Thermal, F5J and LEG will be flown to normal EXPO format

F3K Discuss Launch Glider sessions will occur on Saturday 26th lunch hour, Sunday 27th lunch hour + additional session at end of day, plus Monday 28th early morning session (8am start)

ACCOMMODATION: Armidale NSW
<http://www.armidale.info/accommodation/index.htm>



**33rd Annual Armidale Sailplane Expo, incorporating...
66th National Championships Glider and Electric Glider**



Friday January 25th - Monday January 28th 2013

**Hosted by New England Model Aircraft Club, Heathcote Soaring League
and Australian Electric Flight Association in conjunction with the Sailplane Expo Trust**

When:-	Friday January 25th Saturday January 26th to Monday January 28th	F3J Open Thermal and F3K F5J and Limited Electric Glider
Where:-	Warrane Rd, Armidale, NSW 2350	Google Maps Co-ordinates -30.444252,151.518692

Who:-
Name: _____
Address: _____
Home Phone: _____ Work / Mobile Phone: _____
email: _____
FAI/MAAA No: _____

Your email address is useful. We can keep you aware of whats happening.

Bald Eagle (over 50) Junior (under 18)

Glider events :-

Open Thermal:- task 10 mins flight in 12 mins working time, line length = 150m, two aircraft permitted per heat, FAI landing tape .
F3J and F3K :- current FAI rules, winches can be used in F3J. <http://www.fai.org/fai-documents> S4_Vol_F3_Soaring_12

What:-		Radio frequency		
		ENTRY	Preferred	Alternate
F3J	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>
Open Thermal	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>
F3K	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>

Electric Glider Events :-

Rules for these events can be found at <http://www.aefanet.com>

F5J	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>
LEG	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>
Administration	\$20	<input type="text" value="\$20.00"/>		
Total		<input type="text" value="\$20.00"/>		

Late Entries: Entries received after the 18th of January may be declined.
MAAA Membership required:- Current MAAA Membership card to be produced upon request

PAYMENT DETAILS

Please pay by direct deposit (preferred) to the following account
account name: **Sailplane Expo Trust**
BSB No: **012510**
Account No: **269415516**
Item Name: **"Your Name" Expo Fee**

If you wish to pay by cheque or Money order please make payable to: **Sailplane Expo Trust**
Post Entry Form to: **Hutton Oddy, 1331 Long Swamp Road, Armidale NSW 2350**
or e-mail: hutton.oddy@skymesh.com.au

Dinner will be at the Armidale Bowling Club at 630 for 7pm Saturday January 26 2013.

Reference sites:
MAAA Website www.maaa.asn.au (Contest guidelines; Australian Open Thermal etc)
Electric Glider rules (AEFA site) <http://www.aefanet.com>

enquiries to hutton.oddy@skymesh.com.au or phone :- 0425 285 758



2013 Australian National Championships for Radio Control Precision Aerobatics - Bulletin 1

Organisers - NSW Pattern Flyers Inc. On behalf of MASNSW and MAAA.

Dates – A Three day event 26 – 28 April 2013.

Location – Hawkesbury Region, NSW
<http://www.hawkesburyaustralia.com.au/maps/>?

Flying Site Charles Kingsford Smith Model Aircraft Club field Pitt Town Bottoms Road Pitt Town. 33 35'14.22 S 150 50'59.52 E http://cksmac.com/our_field

The field is located 50KM west of the Sydney CBD and is easily accessible from the M7 Westlink or M2 Motorways. It is 55 minutes by motorway from Sydney Airport.

The field has two smooth, closely cut grass runways orientated 90 degrees to each other. The main runway is aligned east/west and is 300m long and 30m wide it will be possible to operate two parallel flight lines for the full flying day without the sun in the manoeuvring area. The pit area is a covered concrete surface, additional shelter will be provided for competitors.

Participation The event is open to all members of MAAA affiliated clubs and International FAI affiliated air sports bodies.

Classes of Competition F3A P-13, Expert A-12, and Advanced and Sportsman. Australian competitors must compete in their current class in accordance with the APA ranking system. Overseas competitors may fly in any class at the discretion of the organisers.

Accommodation Competition Headquarters will be at the Hawkesbury Racecourse Motel, 11 km from the contest site <http://hawkesburyraceclubmotel.com.au/>

Other accommodation Options:
http://www.hawkesburyaustralia.com.au/directory_categories.asp?id=1

For more information contact Richard Knox on 02 4446 1021 or rpknnox@bigpond.com



Club News

Warialda Fun Fly and FlyFly Mirage 2000

Just back from the 10th annual Warialda Fun Fly held over weekend 10-11 November. "Lot of flies" there



with it being well in the bush; a long way inland. Great bunch of Guys, full size strip partly sealed and the event held for a good cause in support of Westpac Rescue helicopter.

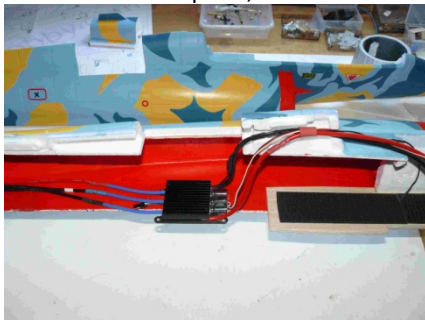
Pretty nice flying conditions both days, Saturday being overcast and Sunday a slightly warmer sunny day. This was my second visit to this annual event, bringing my EDF fleet only. Each landing was bit of a challenge as the wind was mainly across the strip. A short cross runway was also avail but a little rough for the small wheels on my foamies. Pilot turnout wasn't as large as in previous years - I have noticed this phenomenon at most recent events, possibly due to current state of affairs.

One of the models I demo-ed was my latest el-cheapo, (that I spotted advertised in the RCM News magazine recently)". A Mirage 2000 by FlyFly. It seems advertising works. Never really

liked the model but at \$129 I thought



it was a bargain. The instructions recommend a 5S set up which would in my opinion make it nice sort of park flier so I decided to hot it up to 3Kwatt, 8S using a C/F 90mm 11 bladed "Stumax" EDF unit. Major modifications were required for this upgrade; installing a carbon fibre wing tube. The 120amp HV, ESC had to be



placed inside of air intake involving serious fuselage surgery, strengthening the front section and designing my own landing gear to take the extra AUW. The greyish pre-painted colour scheme did not do much for me so I sanded down the whole model and gave it new livelier "JFS Salamander Spotted"



scheme. I don't know who designed this model



but the simple Delta/Elevon controls surfaces are so large they could control a big gasser IMHO. One third of their size would have been more than sufficient for this EDF jet. Only few millimetres of movement is required for a pretty lively performance. With my power upgrade



I have managed a 1.4 to one power/weight ratio giving it almost an unlimited aerobic pattern performance at a rather high current draw (over 100amps) so the flight time has to be strictly observed. While using 8S/4000/ 40-50C batt. I get 2.5minutes of hard flying or 3-4min. with some throttle management. It's a real head turner, not only due to the unconventional colour scheme but also

for the unique smooth jet turbine sound of the Stumax multi bladed fan.



At 3kg, AUW it is very light loaded and being a large Delta surface the landings can bite you if not judged correctly especially in windy conditions. I love the model so much that in the first week after completion I have done over 20 flights off the beach, grass strips and bitumen runways.



Regards, Joseph Frost



AMA National Model Aviation Museum

As mentioned in my comments on page four, I took time during my recent trip to the US to visit the AMA National Model Aviation Museum at Muncie, Indiana. The highlight as far as I was concerned was the full size replica of a 1950s era hobby shop (not an ARF to be seen). Although obviously

concentrating on the US market of the time, there were examples from KeilKraft, Veron and the like. Although I didn't get the chance to check myself, I was assured that the contents of the boxes were all intact. I'm quite happy to take their word for it







Scale Matters

Alistair Heathcote
Secretary NSWAS

Omaka Aviation Heritage Centre

Omaka is at the north end of New Zealand's South Island – 5 kms from Blenheim. It is the site of the Classic Fighters air show and while I was at the show at Easter, I visited the new Aviation



Heritage Centre that was only recently opened.

The Centre has, in a purpose built display area, one of the world's largest collections of World War One aircraft and memorabilia. The exhibition includes a mix of dramatically staged static displays along with flyable aircraft.



The collection is managed by a heritage trust (New Zealand Aviation Museum Trust) chaired by film director Peter Jackson, and has been brought to life in a series of theatrical dioramas constructed by the company he uses to build his film sets (see the photos. Note that all the faces are images of people that Peter Jackson knows!!). Lighting is setup to dramatise the display aircraft but this makes it difficult to



generate good photos. For what it is – an exhibition rather than a museum – I would say it ranks with any I have seen anywhere. Note too that Peter Jackson owns a number of World War 1 aircraft and this serves as a display area for many.

Some history of Omaka:

- Aerodrome established in 1921 and became a stopping point for military aircraft.
- In 1928 hosted Charles Kingsford Smith and Charles Ulm following their first crossing of the Tasman Sea.
- Jean Batten brought her Percival Gull on tour after her pioneering solo flight from England
- It was an RNZAF station during WWII
- It is essentially a square paddock and is now home to several restoration and crop spraying organizations.

The photos say it all – I have many more for anyone interested including the back ground to each exhibited aircraft.





The RC Aircraft Competition on Display that Australia has been waiting for.



SPEKTRUM
Leaders In Spread Spectrum Technology

Gratton Air Invitational

Feb 14 -17, Gratton Field, Calvert QLD

- 4 Days of non-stop competition and flying
- Trade Vendors
- Mid-day RC Airshow Friday, Saturday and Sunday
- Food available all 4 days

Witness the birth of a new era in Model Aviation!



Come and see World Championship Scale Models, Worlds Largest Catalina Model, Large Scale Pylon Racers, Large Scale Gliders, 200mph Jets, Helis, 4x4 Buggies and more!

International Pilots - Demo flights by Team Horizon's Ali Machinsky (UK) and Mike McConville (USA)

Directions, times, camping and other info at www.crams.com.au





just an average
group of flyers with an obsession for precision aerobatics

RC PRECISION AEROBATICS - 2013

The first of the 2013 NSW Pattern Flyers Inc. competitions will be held at the Shoalhaven Model Flying Club Nowra, Fletchers Lane Field on Saturday 16th and Sunday 17th February 2013.

Fletchers Lane is off Meroo Road, which is off the Princes Highway to the left as you approach Nowra from Sydney. The Field is at the end of the road just over the railway line.

Those wishing to try Aerobatics are most welcome to attend, and fly in the Sportsman Class, where everybody starts out with a relatively simple but challenging schedule. If you already have your Gold Wings then you can do nearly all the manoeuvres, if not, what better way to learn and progress to get them. The Schedule is available on our website www.nswpattern.org.au. If you are not sure about having a fly, come along and watch, meet the group, and ask any questions you like. We are always looking for new members.

Pre-registration on the website www.nswpattern.org.au by 13th February 2013 would be appreciated.

Diary Note for 2013 – The MAAA Nationals. The Nationals are being held in NSW in 2013, and the Pattern Event (for precision aerobatics) is being held at CKSMAC Pitt Town over three days on the Friday 26th, Saturday 27th, and Sunday 28th April, 2013. See the first Bulletin in the last Newsletter, and it is also on our website www.nswpattern.org.au. The second Bulletin will be released later in the year with more details, including entry procedures etc.

Other event dates for 2013 are being firmed up, and those that have been scheduled are shown in the MAS NSW Rolling Calendar. Other dates will be added as soon as they have been agreed with the host Clubs.

We would like to take the opportunity to wish you all a very happy Christmas and New Year, good flying and keep those wings level.

For more information contact Richard Knox, on 02 4446 1021, or at rpknnox@bigpond.com



Coota Scale!



Cootamundra Giant Scale Rally

proudly hosted by Miniature Aero Sports New South Wales

State Flying Field Cootamundra NSW

Mark your diary for the inaugural Cootamundra Giant Scale Rally. All large-scale aircraft are welcome. There will be gliders, turbines, war birds, and civilian categories.

This is an MAAA Event and all aircraft over 7 kg will require certification. Details will be sent via email in the next two months. Get in early and book your accommodation.

Friday, Saturday, Sunday 1-3 March 2013
For further information call Tim Nolan 0412173440

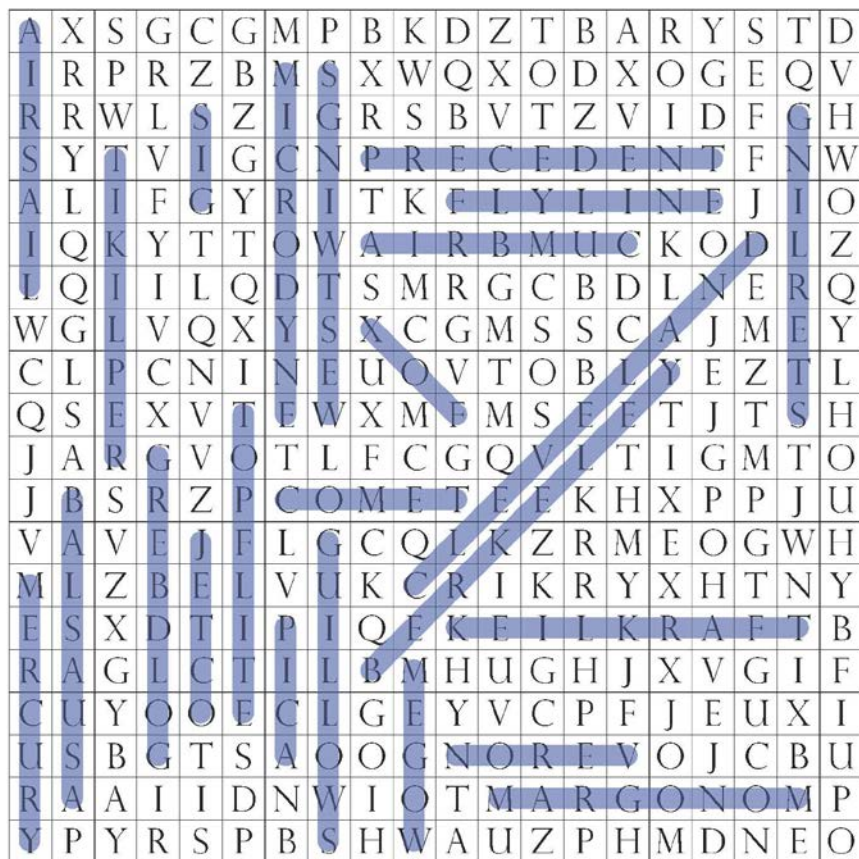
www.masnsw.org

email: secretary@masnsw.org



Find a Word

Solution to last month's puzzle - how did you go? If anyone has any thoughts on a theme for puzzles in future editions please drop me a line. If you can come up with 24 related words I can enter them into the magic Find a Word machine.



WESTWINGS
PRECEDENT
MICRODYNE
CLEVELAND
KEILKRAFT
REPLIKIT
BALSUSA
GOLDBERG
TOPFLITE

MONOGRAM
BERKELEY
GULLOWS
STERLING
FLYLINE
MERCURY
AIRSAIL
CUMBRIA
VERON

JETCO
MEGOW
COMET
PICA
SIG
FOX



For Sale



Big Chaos - Sport, acrobatic model with over 6ft wing span, Near new 108 OS motor, Futaba servos ready to add your radio and fly.

Excellent aerobatic trainer for experienced flyer, asking \$ 550



Big Quarter Scale 8KCAB – Decathlon, complete with Z38 Petrol motor
All fittings including scale engine cowl, detachable wings with working struts.
Easy to transport, disassembled to show more detail - asking \$ 650

Also have some smaller type aircraft if you are interested
For more information or offers contact: Bruce Townsend
Ph: (02) 9636 1008



**Deadline for submissions to
Newsletter #352 (Jan/Feb 2013) is
Tuesday 15th January 2013.**

*Please forward any changes of mail or email address
together with your
AUS Number directly to the Registrar.*