



THE VOICE OF CONTROL LINE AEROMODELLERS FROM AROUND AUSTRALIA

Number 238

Produced by the Victorian Control Line Advisory Committee



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PRODUCTION SPECIFICATIONS

**Pease send any submissions for publication by CD/
memory storage device or use Email.**

Contest results should be tab delimited, i.e. use a single tab between each column of results, if submitted by disk or email. This makes formatting much easier on the editor.



COMING EVENTS



VICTORIAN CONTROL LINE

CONTEST CALENDAR 2018/19

DATE	EVENT	CLUB
Feb 3	CLAG flying day	Moe
Feb 10	Sport flying day.	CLAMF
Feb 24	Hearns Trophy F2B / Yeoman's Novice Stunt	KMAC
Mar 9 - 12	S.A. State Champs.	Monarto
Mar 3	CLAG flying day incorporating Electric Control-line!	Moe
Mar 24	Combined Speed , Combined Stunt	CLAMF
Mar 31	Vic State Champs practice day, general flying welcome.	KMAC
April 19 -21	Vic State Champs.	CLAMF/KMAC
Apr 28	KMAC Carnival.	KMAC
Apr24-May1	MAAA 71st Nationals.	West Wyalong
May 5	CLAG flying day.	Moe
May 19	Combined Speed , Coreflute Combat.	CLAMF
May 26	All-Aussie and Vintage Combat.	KMAC
Jun 2	CLAG flying day.	Moe
June 16	Classic FAI , Vintage A, ½ A Combat.	CLAMF or Albury
Jun 30	Rat Race.	KMAC
Jul 7	CLAG flying day.	Moe
July 14	Combined Speed , Classic Stunt.	CLAMF
Jul 28	AGM and Warbirds.	KMAC
Aug 11	Carrier, 27 Goodyear.	CLAMF
Sept 8	Combined Speed , Vintage Combat.	CLAMF
Oct 5-7	NSW State Champs. Racing and Speed	Albury
Oct 20	Corflute Combat, F2B & Classic Stunt.	CLAMF
Nov 10	Combined Speed , Warbird Stunt.	CLAMF
Dec 8	Vintage A, Classic B, Classic FAI .	CLAMF

Events will be flown in order of printing. Events in **Bold type** will be flown over hard surface.

CLAMF Frankston Flying Field, Old Wells Rd, Seaford (Melway 97J10), GPS -38.086777,145.148009

10.00am start

Contact :- Secretary, H. Bailey (03) 5941 5978

Email :- clamf@ozemail.com.au

Web site :- <http://clamf.aerosports.net.au/>

KMAC Stud Rd. Knoxfield

(opposite Caribbean Gardens) (Melway 72 K9) 10.00am start

Contact: President:- Reeve Marsh 0405 001 008 or

Secretary:- Bruce Mackay 0418 380 014.

Email:- knoxmacvic@gmail.com

Web site :- <https://sites.google.com/view/knox-model-aircraft-club/home>

CLAG has monthly fly-ins at the Moe Race Track every first Sunday of the month.

Contact :- Treasurer. Alan Frost

Email:- afrost2@skymesh.com.au

Phone:- 03 52817350



COMING EVENTS



C.L.A.S. CONTEST CALENDAR 2019

DATE	EVENT	CLUB
Apr 7	Brendan Farrell Day. GGY and Mini GY.	KMFC
Apr 14	Combined Speed	SSME
Apr 19-22	VMAA STATE CHAMPIONSHIPS. ***	CLAMF/KMAC
Apr 24-May 1	71st NATIONALS. *** NSWFFS at West Wyalong	
May 18-19	Veterans' Gathering.	MDMAS
May 19	Combat. Slow and Vintage.	KMFC
Jun 1-3	W.A. State Championship***	AWA
Jun 8-10	NSW STATE CHAMPIONSHIPS. Aerobatics and Combat ***	
	CLAS NSW at Whalan Reserve	
Jun 29-30	Frank Bryant Memorial Warbirds & Civilian Scale Event.	MDMAS
Jul 7	Annual General Meeting	KMFC
Jul 7	Milperra Vintage/Classic Fly In.	
	SAT at Ashford Reserve	
Jul 21	F2B Aerobatics.	Doonside at Whalan Reserve
Jul 28	F2B Aerobatics	KMFC
Aug 11	Classic Stunt.	SAT Ashford Reserve
Aug 11	Peacemaker Day	KMFC
Aug 23-25	Cowra Oily Hand Diesel Weekend	Cowra
Sep 14-15	Rocky Rally Classic B T/R and Fun Flying.	
Sep 22	F2B Aerobatics	SSME Luddenham
Sep 29	Gordon Burford Day	KMFC
Oct 5-7	NSW STATE CHAMPIONSHIPS RACING and SPEED ***	Twin Cities Albury
Oct 13	F2B Aerobatics	SAT Ashford Reserve
Oct 20	Vintage/Classic Stunt Fun Fly	SAT Ashford Reserve
Oct 27	Combined Speed, DGY and other Racing	SSME at Luddenham
Nov 3	Classic Stunt	Doonside at Whalan Reserve
Nov 10	DGY, Speed, Weatherman TR	KMFC
Nov 24	KMFC Christmas Party and Fun Fly	KMFC.
Dec 1	F2B Aerobatics.	Doonside. Whalan Reserve

KMFC - (Ku-ring-gai Model Flying Club) - St. Ives Showground, Mona Vale Rd, St. Ives.

SAT- (Sydney Aeromodelling Team) - "Duck Pond", Ashford Road, Milperra.

SSME - (Sydney Society of Model Engineers) - Model Park, Luddenham Road, Luddenham.

DOONSIDE- Baseball diamond, Whalan Reserve.

*** = World Championships team qualifying round.

Send your articles for publication to Newsletter Editor

Harry Bailey.
3 Bailey Place
Pakenham 3810
Victoria
Email:-

hbbaily@optusnet.com.au

News from WA

We will not be listing Vintage-A at the State Champs. This is mainly due

to the decline in participants over recent years. Last year it only attracted 2 entries and the year before there were 3 of which two were from Singapore.

Classic-FAI is gaining momentum in the eastern States Championships and already has more prospect here, so now is the time to move forward.

There are at least 3 teams with models ready to go right now, but we need others to get on board and start or complete new models for our first practice event planned for late March. (date yet to be confirmed)

We hope to attract a few teams from outside WA and Singapore has been advised to start building.

The rules are in the MAAA rule book.

There are plenty of plans available or you can design your own.

The program for next year's State Champs will look a bit like this. F2A, F2C & F2D as World Champs qualifying events.

We will be calling for pre-entry this year to finalized the program.

Friday 1st June. Practice all classes.

Saturday 2nd June. F2C rounds 1,2 & 3. F2F 2 rounds and final.

Sunday 3rd June. F2C round 4 and final. F2D

Monday 4th June. F2A. Classic-FAI (will move to Saturday if F2F does not get enough pre-entries)

cheers

Trevor Letchford.

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Look what happened at the recent NZ Nationals.

Just wanted to share this with those who could not be there.

Brian Howser is a pretty happy boy.

Helen.



AROUND THE CLUBS

Here are some notes on the KMFC Christmas party held at our club field at St Ives Showground on November 2018.

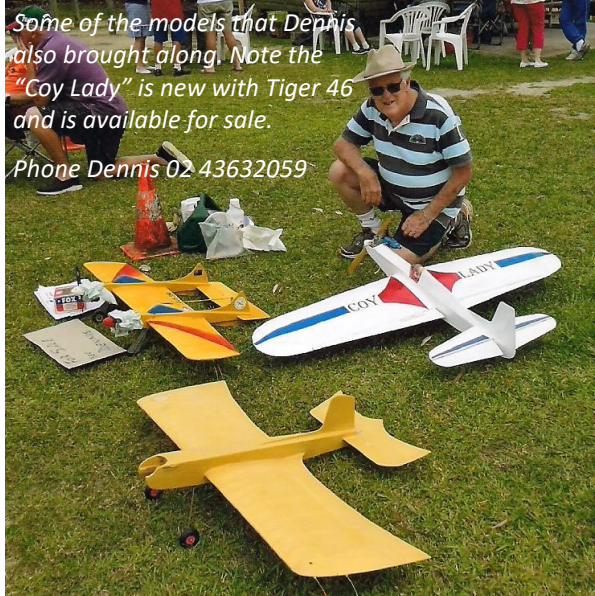
We had a great day, the weather was kind to us and there was a great roll up for the last event for 2018.

A great variety of models were present providing a fun day for everyone.



Right. Ian Smith and Pat Hasler with Ian's Top Flight ARF "Force/Primary" power by Tiger 35 and a Sig "Skyray" with Saito 40 engine.





Some of the models that Dennis also brought along. Note the "Coy Lady" is new with Tiger 46 and is available for sale. Phone Dennis 02 43632059



"Reg Towell with his immaculate new See Fury". A difficult model to build from scratch. Reg commented that he may strip back and re-paint the model to reduce some weight.



Pat Hasler with two very nice scaled up "Ringmasters"



Warren Williams UFO/ This was a Top Flight ARF blue monocoque covered "Nobler"/OS 40 powered. (A little custom work involved)



Left:- John Dodds with a great flying rubber powered glider, to start the engine John advises it takes around 60 cranks.



Jeff Reeves, grinning like a Cheshire cat, with his beautiful "Centurion" model.

Report and pictures from Warren Williams.

Results of the Doonside F2B competition on Sunday 2/12/2018

The weather prediction was for high winds with gusts developing mid to late morning, which probably deterred a few from attending.

However, those that showed up got underway early with 2 rounds each being flown.

Don Keysekker received a round of applause with his best flight of the day in gale conditions.

Following Don's flight, all models were rushed to the safety of their owners vehicles and then all hands were on deck to hold down the shade shelters that were almost blown away.

A quick presentation was held, shelters were packed away and that was it! (Consequently not many photos were taken).

Results.	Model
1st place - Bruce Hoffman	Firecracker.
2nd place - Frank Battam	Bearcat
3rd place - Richard Field	Shark



Richard Field's new Yatsenko "Shark" safely back in the boot.



Richard Field with Perpetual Trophy for the highest score from all handicap competitions over the 2018 year.

Geoff Van Kampen with similar Perpetual Trophy for Advanced flyers.

Frank Battam's Saito 56 powered "Bearcat"



Don Keysekkers "Gladiator/Tiger G51, safely back in the vehicle"



Report and pictures from Warren Williams.



The last contest day of the year at the Control Line Aircraft Club of Frankston was held on Sunday December 9th. Three events were on the programme but only Classic FAI was contested. Unfortunately there were not enough models on hand to make Vintage A and Classic B a going concern.

The weather was perfect for a bit of casual messing about and some general flying took place using a selection of model types. Keith Baddock brought along a converted electric park flyer on lines and his son Nathan had a few flights until the motor became detached.



Classic FAI had three teams ready to race and each team flew a couple of two up races. All models were capable of some good racing times. Harry and Ken were using the Nelson powered “Klotnorutski” and decided not to fly in a 200 lap final and save the model for some more serious competition in the new year. The final race was between Nugent/Ellins v Wilson/Baker and the ‘Nobby’ Classic was the clear winner.

Results

Team	Heat 1	Heat 2	Final	Engine
M. Wilson/N. Baker	4:15.78	4:20.13	8:22.95	Nelson
A. Nugent/M. Ellins	4:52.01	4:11.46	9:12.07	Fora
H. Bailey/K. Hunting	4:29.87	4:18.19		Nelson



Following the conclusion of the day’s flying the clubs Christmas break up celebrations took place at the home of the Wilson family. Thanks go to Fiona and family for organising the very tasty catering



GLOW PLUGS

The glow plug is used to provide ignition for the fuel/air mixture in a similar manner to a spark plug in a petrol engine. A spark plug could also be used in our model engines running with our special fuels but would then require added equipment and complexity with the possibility of interference with the radio receiver. However, glow plugs cannot be used with an engine running on petrol (likewise without added equipment).

So how does it work? To start the motor we must first heat up the element (the small coil of wire inside the plug) by connecting it to a battery. Most plugs are designed to use 2 volts but some can only handle 1.5 volts. Make sure which one you have! A 2 volt plug will not get hot enough on 1.5 volts for easy starting while a 1.5 volt plug will burn out on 2 volts (the coil melts).

Once the motor is running the battery can be disconnected. However, the plug will continue to glow with an orange heat to provide ignition. How does it do this without a battery?

It all hinges on the fuel we use (or part of the fuel) and what the element is made from. The working part of the fuel is methanol which is a type of alcohol, but not the drinking kind, it is quite poisonous. The element is made from several metals alloyed to make it strong enough to handle the heat and vibration. The metal we are interested in is the platinum. When platinum comes in contact with alcohol there is a catalytic reaction between the two which heats the platinum while causing the alcohol to ignite. So one helps the other.

But the element is glowing all the time the motor is running so how does the fuel know when to start burning (in other words, what determines the ignition point)?

Well this goes back to the catalytic reaction again. This reaction depends on two things, one is the temperature of the element (the hotter it is the easier it will react) and the pressure of the fuel/air mixture inside the cylinder (the higher the pressure the easier it will react).

Glow plug temperature is controlled by using different HEAT RANGE plugs. Just like motor car spark plugs, glow plugs come in different heat ranges from hot too cold with maybe half a dozen steps in between. If in doubt, use the plug specified by the engine manufacturer. Using a hotter plug than normal will advance the ignition point and a colder plug will retard the ignition. The only way to determine exactly the right heat range plug is by using an accurate tachometer. The plug that gives the highest rpm (for the same fuel and propeller) is the correct plug.

But what about the pressure of the fuel/air mixture? This is determined by the compression ratio of the engine and normally is fixed by the manufacturer with possibly some small change allowed for by fitting or removing shims under the cylinder head. Not something to play with unless you know what you are doing.

For ultimate power a competition modeller will juggle combinations of plug, compressions and type of fuel (mainly nitro methane content) but this is way beyond the needs of the sporting flyer.

Here are two brands of plug with their various heat ranges.

OS PLUGS

The complete line up of O.S. plugs are as follows:

OSMG6300- #0 Economy standard plug similar to the #8.

OSMG6304- #1 Hot plug for low nitro (0-5%).

OSMG6308- #3 Medium plug for medium nitro (5-25%).

OSMG6312- #5 Cold plug for high nitro (25%+).

OSMG6316- #7 2 stroke engines requiring an idle bar.

OSMG2691- #8 "The" standard. For use in all 2 strokes, any nitro.

OSMG6320- #9 For general use in 2 stroke engines.

OSMG2692- #F For O.S and other four strokes.

OSMG2688- #RE For the O.S. Wankel rotary engine.

ROSSI PLUGS

10001 R1 EXTRA HOT FROM 0,8 TO 2CC

10002 R2 HOT FROM 2 TO 3,5CC

10003 R3 MED FROM 3,5 TO 6CC

10004 R4 COLD FROM 6 TO 10CC

10005 R5 EXTRA COLD FOR NITRO FUEL AND RC

10006 R6 COLD FOR NITRO FROM 10 - 13CC

10007 R7 COLD FOR NITRO FROM 13 - 15CC

10008 R8 SUPER COLD FOR NITRO FROM 15-30CC

10010 RC HOT FOR RC FROM 2,5 TO 6CC

10020 RC COLD FOR RC FROM 6 TO 15CC

10011 G1 HOT FOR R15 SPEED

10022 G2 MED FOR R15 SPEED

10033 G3 COLD FOR NITRO FROM 18% TO 30% FOR R15 SPEED

10044 G4 EXTRA COLD FOR NITRO FUEL FROM 30% TO 15% FOR R15 SPEED

10055 G5 EXTRA COLD FOR NITRO FUEL FROM 50% TO 70% FOR R15 SPEED.

New Products

It's not very often that we get to hear about a new kit manufacturer providing control line kits but I have recently been interested to watch some developments on the [AEROFLYTE AUSTRALIA and MODEL BUILDERS DOWNUNDER](https://www.facebook.com/groups/918169658270201/) Facebook group at <https://www.facebook.com/groups/918169658270201/>

The old Aeroflyte "Kittyhawk" is now being produced and is getting some very good reviews.

"Just picking through the box and have to say I can't remember this quality wood in any of the old kits, really light, lovely grain and laser cut new to me, just falls out, just a first class kit thanks".



Kits are available from Brian Simpson at Perth RC Hobbies or go in to your local hobby shop and ask them to order one for you.

News from Qld

2019 CLASII Ipswich Calendar

STATE CHAMPS

23rd – 24th March, All grass racing, Vintage A, Classic B, 2.5 Simple Rat, Brian Bourke 500 lap Memorial 27 Goodyear, Classic Fai, 21 Bendix.

10th- 11th August, All Combat, F2D, Open, Vintage, 35 Slow, 2.5 Slow.

2nd – 3rd November F2A, F2C, F2F, Open Goodyear, Classic Fai, Speed,

Club Comps

Sat 9th Feb, 27 Goodyear, Vintage Combat

Sat 18th May, Classic B, Vintage A, .27 Goodyear

Sat 13th July, 21 Bendix, 2.5 Simple Rat

Sat 14th December, Xmas Break Up. Vintage Combat, 2.5 Slow Combat

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Copy or artwork for ads should be sent to the editor, cheques to the treasurer (G Wilson P.O. Box 298 Seaford, Vic. 3198) If you want to save a stamp, I can forward on any cheques sent with ads, but please make them payable to "Control Line Advisory Committee"

WANTED

Wanted. Original Moki muffler in good condition to fit a Moki .51.

Contact: Peter White ph. 08 9307 3000

email: peterwhite1942@hotmail.com

For Sale



New, .15 size Novarossi piston & liner set. 16.42 Bore. 3 port.

Cost to me was US \$55.
Make me an offer.

Harry Bailey. Email:- hbbaily@optusnet.com.au

Mob:- 0418 554 383

Speed pans for sale. 2cc size (\$25) and 21 size. (\$30)

Also small amount of Nelson type T/R pans. (\$25)

All pans in the "as cast" state. Not finished.

Andrew Nugent. andrew.n5@bigpond.com

I can now produce wings and tailplanes that are shaped on a Computer Numerically Controlled (CNC) router and can be any planform and shaped with any section although I have my favourites. The finish and accuracy of these products has to be seen to be believed.

They have laminated leading edge and reinforced front panel on the outboard wing for catching.

Internal control grooves and bellcrank assembly are also part of the package. They are ready for glassing as supplied. A shut-off actuator can be supplied as part of bellcrank assembly if required.

I can also supply spruce for leading/trailing edge etc. cut to any section size.

I can be contacted via Facebook or

Mobile 0404205562

Ray Harvey

MVVS Diesel. As New	\$125
Cipolla 1.5 cc glow x 2	\$65.00 each
Viko F2E RTF models X 6	\$100.00 each
F2D RTF lines	\$12.50
F2D engine mounts with bolts	\$28.50 pair
Line reels 153mm Dia	\$10.00
Thunder Tiger 20 glow. NIB	\$50.00
Enya CX11 (6 runs)	\$150.00
F2D black handles	\$28.50
Bladders F2D	\$5.00
Straight engine mounts F2E & 1/2 A	\$25.00
F2D shut-offs. (Alloy)	\$42.00
Fora tool x1	\$25.00
Taipan propellers	\$4.50 each
Combat Streamers	\$1.80 each
2" Taipan Racing Wheels	\$10.00 each

Postage not included in above pricings.

Contact:- Greg Nelson 0435757710.

As some of you already know I have taken over the manufacturing of CL props for Supercool props.

Email me for any enquiries / orders

F2C , GY, Speed , Free Flight & other props available.

Contact Ian Thompson

iandthompson@msn.com mobile 0451085325

Be considerate with phone calls. I am in WA & there is a time difference from Eastern States.

U.S. Hard rock maple bearer wood, precision cut and machine sanded.

Cost \$4 each plus postage. All lengths 12"

Sizes: 3/8"x3/8"

3/8"x1/2"

1/2"x1/2"

Also, I now have a stock of 3/16" sq. and 1/4"sq rock maple spars.

All spars are precision sanded with 150 grit. \$4 each plus postage.

TCA Italian glow plugs in Australia.

I have for sale a large range of TCA glow plugs.

TCA supply Luca Grossi the current F2A European champion.

There are std type 1/4x32 thread, Nelson style tapered seat with flat coils and the "turbo style" tapered seat.

Italian made TCA Nelson type combat plugs arrived for those that might be interested, \$8 each plus postage.

email: aheath296@gmail.com

Taipan propellers in the following sizes available:

Flexible white nylon 7x6 \$2.20 each.

Small number of black (Glass Filled) 7x4 & 7x6 left @ \$2.50 each

9x6 Black GF \$3.00 each

10x4 Black GF \$3.50 each

10x6 Black GF \$3.50 each

+ letter post or parcel post rates depending on size & quantity ordered.

Pure, first pressing Castor Oil:

2.5 litre \$25 +3 kg satchel Auspost price

4.8 litre \$48 +5 kg satchel Auspost price

Premixed Diesel fuel in 500 ml /1 lt steel containers

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PH Ken 0433 797 058 combtkid@hotmail.com

For Sale.

38μ (micron) Mylar laminating film (heat activated adhesive).

Suitable for C/L combat models, great for F/F models.

Even better with tissue doped over it for a 'vintage look'

This is very close to the 'Oz Cover' that was sold by Saturn Hobbies many years ago.

1m x 5m \$20 + postage at cost.

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Danny Mz mob # 0477224751

Master Junior 2.5cc Diesel engines. \$195

For a Junior engines. \$230

Fora Junior 1.5cc Diesel engines. \$189

Taipan propellers in stock.

Flexible nylon (combat)

7x4, 7x6, 7x6E, 8x4,

8x4E, 8x6.

Hard plastic. 7x6, 9x4 & 9x6. 10x4, 10x6

All props. \$4.50 each.

(New) Taipan Metal Handle/Reel. \$69.00 each

Limited Stock

Taipan free flight tanks including

a free propeller of choice. \$17.50

Combat Handles.F2D,F2E, Vintage Combat. \$28.50

Lines RTF \$12.50

taipanprop@gmail.com

Contact:- Greg Nelson 0435757710.

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AUSTRALIAN CONTROL LINE NEWS

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**SURFACE
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Date	Social Events	Rego Centre FF/RC indoor	CL Aerobatic McAllister	CL Speed WW Airport	CL Combat Redman
Wed 24	Opening Ceremony Ind/ Stadium	8am-5pm Registration	Practice	Practice	Practice
Thu 25	Anzac Day Dawn Service	9am- O/Rubber Indoor fun fly	9am-4pm F2B AEROBATICS ADV & EXP	9am-1pm Combined/Jet Speed 1pm Junior 2.5cc Rat Race	10am-5pm 1/2a COMBAT Slow Combat
Fri 26		8-12pm FF Static judging 12-5pm Practice 6pm-9pm F1D,F1L 6-9pm	9am-4pm F2B AEROBATICS ADV & EXP	9am-1pm F2C T/RACE Heats 1&2 1pm Classic FAI T/R	8am-5pm Jnr Combat F2D Combat
Sat 27		6pm-9pm IHLG,ICLG H/Rat, H/R Scramble Indoor fun fly	9am-4pm F2B AEROBATICS ADV & EXP	11am-2pm F2C T/Race Heats 3&4 F2C Finals 2pm F2F T/Race	8am-10.30am VINTAGE A T/R
Sun 28	Swap Meet Auction 6- 9pm	Last day to register Indoor fun fly	9am-4pm F2B AEROBATICS ADV & EXP	11.30am-5pm Open R/ Race, SNR 2.5cc R/Race	9am-11am CLASSIC B T/R
Mon 29	6pm-7.00pm Night Scramble 7.30pm BBQ AB field	CLOSED	Control line scale Demo/try /fly day	9am-11am Round 1&2 F2A SPEED GOODYEAR.	8am-5pm VINTAGE COMBAT
Tue 30		CLOSED	9am Classic Stunt	9am-11am Round 3&4 F2A SPEED 11am GOODYEAR 27sec/10 laps	8am-5pm OPEN COMBAT
Wed 1 May	Celebration dinner WW Services club	CLOSED	Vintage Stunt	Reserve Day	Reserve Day

Here is a copy of the programme for the Control Line Section of the **71st MAAA Nationals at West Wyalong.**

There have been some comments made about the difficulties that some entrants wishing to take part in multiple disciplines would have with event times clashing and a request was made to modify the programme scheduling to Bruce Hoffman (control line CD) but the schedule is unlikely to be changed from the current version.

Visit the MAAA web site for more Nationals information

<https://www.maaevents.com.au/>



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