

IME

Points of Interest:

- From the President.
- Progress report on 30th SAM Champs.
- R/C Oldtimer Glider Grant Manwaring.
- Results and report Eastern States Gas Champs at Wangaratta.
- Control Line and other matters David Owen.
- Engine Analysis ED Mark IV Diesel.
- Coota Cup Oldtimer Results and Report.
- The Back Page.

BULLETIN No. 172 Sept - October 2011

WORTH NOTING:

From Roland Friestad cardinal.eng@grics.net

It is with deep sadness that I have to report that John Worth passed away Sunday Evening October 23, 2011, at 10:22 pm.

From SAM Treasurer Gail Scott

Gail is seeking historic photos of past SAM events, articles, members and models for inclusion in a special collection of photos as a commemorative feature for the 30th SAM Championships in 2012.

Members can email their electronic photos to Gail at <qualmag@optusnet.com.au>. Please send a high resolution copy of the photo. If it is a scan of a printed photo please scan at 400 dpi. Alternately you can post your print to Gail at the address on page 2 of this Duration Times.

It is hoped to be able to produce a commemorative CD of these photos for distribution to SAM Members.

Postal Vote re Change of Date for the Eastern States Gas Champs.

SAM 1788 Members will receive a Postal Vote with this Duration Times. Please consider the points raised re the proposal to change the date for this event and send in your decision to the SAM Secretary as soon as possible but no later that 30th December, 2011. Thank you.

Vale Dawn Stevenson

Members are advised that Harold Stevenson's wife, Dawn Stevenson, passed away recently and SAM1788 sends its condolences to Harold for his loss. Dawn was one of the gang at SAM 1788 events for more than 25 years and was Harold's "right hand (wo)man" at all SAM 1788 events. Many fliers at Oldtimer events will have fond memories of Dawn and her friendly, caring and helpful ways towards them. She was always good for a cuppa and yarn anytime.



Muswellbrook Oldtimer and Electric Glider Weekend November 12th-13th, 2011.

Competition Events

<u>SATURDAY</u>:

- * 9.30am Start Gordon Burford & Oldtimer Duration,
- * Vintage and Balsa built-up gliders handicap event.

<u>SUNDAY</u>:

* 9am Start - ¹/₂A Texaco then Oldtimer Texaco,
* Vintage and Balsa built-up gliders handicap event.

Non-Competition Event

* Electric Glider Fun Fly.

BBQ both days for breakfast and lunch - Drinks, Tea & Coffee available all day.

Check the web site for entry fees, rules and other information regarding this great weekend.

www.mdmas.org.au

For information contact: Phil Thiethener 0417 725 981 Email president@mdmas.org.au Simon Bishop 0429 453 286 Email vicepresident@mdmas.org.au

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Committee Members: Grant Manwaring Ian Connell					
Email for Duration Times - iwa@internode.on.net					

<u>Upcoming & Provisional Oldtimer Events for 2011 – 2012.</u>

November	12-13	Muswellbrook Oldtimer Weekend	Muswellbrook	Simon Bishop	02 6543-5170.
February	4-15	Oldtimer at Orange. Alan Brown Memorial.	Orange	Stewart West	02 6331-9822.
March	17-18	Wyong River Oldtimer Weekend	Wyong	Basil Healy	02 4341-7292.
April	5-10	SAM 1788 Championships	Canowindra	Basil Healy	02 4341-7292.
May	5-6	Veterans Gathering	Muswellbrook	Simon Bishop	02 6543-5170.
May	13-14	Belconnen/Yass Oldtimer Weekend	Yass	Grant Manwaring	02 6241-1320.
June	16-17	New England Gas Champs	Tamworth	Basil Healy	02 4341-7292.
July	21-22	Golden West Oldtimer Competition	Parkes	Peter J. Smith	0423 452 879.
August	25-26	Oily Hand Diesel Weekend	Cowra	Andy Luckett	02 6342 3054.
September	29-30	Eastern States Gas Champs	Wangaratta	Peter J. Smith	0423 452 879.
October	20-21	Oldtimer Weekend - Coota Cup	Cootamundra	Basil Healy	02 4341-7292.
November	10-11	Muswellbrook Oldtimer Weekend	Muswellbrook	Simon Bishop	02 6543-5170.



From the President: Looking back at Wangaratta and forward to Cootamundra; that's how I am at the present. We all thought that Wangaratta was going to be a disaster weather wise, it was certainly forecast that way and didn't look good Saturday morning. But, by 11am the rain stopped and flying commenced. We cut one round off each contest and it all worked well. The Friday, Saturday and Sunday nights at The Sydney Hotel were very good with fast service, great food and plenty to chat about. By the end of the weekend we actually made a small profit! Wonderful!!

I personally would prefer to see the weekend moved away from the long weekend to two weeks before. Some wish it to stay on that long weekend, so the committee are asking members for their preference. Please fill in the questionnaire and let the committee know your preference.

I spelled out the Free flight rules for Vintage Power last time in Duration Times and have been asked about the Tom Boy/ Cardinal Free flight rules. They are:- diesel or spark motors that were period to the models, plain bearing only. 1cc upper capacity limit (believe me, a hot shot motor in either of these models is a fast way to crash). Models must be original size and true to plan. 3cc is the max fuel allowance and it is a ratio event. I would suggest that a D.T. timer is essential.

Please don't forget to try and get to Muswellbrook. The locals are running the standard contests so it will be the standard four plus glider. It's a great flying field with top facilities. If we want these events to continue we must make the effort to patronise them.

I include a picture of my latest model - a 1954 Slick Stick for Vintage Free Flight. The motor is a Webra Mach 1. There will be a special prize for the place getters in this class at Canowindra.

Talking of Canowindra, the committee are working on this event. Several details have been tied up and your Hon. Secretary is working like a beaver contacting people and organising every the little detail.

Cheers, Peter Scott.

SAM Championships 2012 - Progress report from SAM Secretary Basil Healy.

Arrangements for the presentation dinner and the Saturday evening barbecue are almost complete. Cost of the presentation dinner will be in the order of \$25 - \$30 per head depending on the menu selected. We are still looking for a group to do the "on field" catering. I am currently awaiting a reply from the Canowindra C.W.A. There will also be a commemorative shirt.

2012 SAM Championship Programme.

Thursday 5th April:	8am 1pm 1pm-5pm 4pm	Free Flight - Vintage Power then Tomboy - Cardinal power/ratio (3cc tank max). R/C Oldtimer Glider. Control Line Phantom and KK Champ racing. R/C Tomboy.
Friday 6th April:	9am - 11am 9am - 11am 11am 12.30pm 1pm 8pm	
Saturday 7th April:	9am 12 noon 12.30pm 7pm	R/C Gordon Burford Event. Lunch. R/C Oldtimer Texaco. Barbecue at Bogwood. Buy, Sell and Swap Meet. Indoor Helicopter event (3 channel control only).
Sunday 8th April:	9am 12 noon 12.30pm 6.30pm	R/C '38 Antique. Lunch. R/C Duration. Presentation Dinner and Raffle.
Monday 9th April:	9am 12 noon 12.30pm	R/C 2cc Oldtimer. Lunch. R/C Standard Duration.

Dave Brown has agreed to receive the entries, compile the score sheets and collate the results for each event.

Contest Directors: So far Peter Scott, Basil Healy and Geoff Potter have offered their services. Any other offers would be welcome.

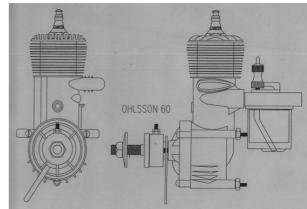
That just about covers things to this point in time. There are still a few loose ends to tie up before I can sit back and relax.

Cracked cases on Ohlsson's can sometimes be prevented by careful checking and fitting. From Bob Angel samrcflier@verizon.net

(SAM 26 Newsletter)

Some O&R's have a "ganging of tolerances" problem that results in the broken cases. The front plate has to be a snug fit in the case, or the three bolts alone won't keep it from starting to move with the pounding the crankshaft takes while running. The front plate fit is tapered so it gets snugger as you push it into place.

But that fit can be too tight on some engines, especially if parts have been swapped. Tightening the bolts on that taper can crack the case outright,



or it might crack upon cooling after a run, when the thin case loses heat and shrinks faster than the greater mass of the front plate.

The solution is to carefully do a trial fit of the front plate to the case without the gasket in place. If the fit becomes too tight, stop and dress down the front plate until the fit is just snug, not excessively tight. You could easily loosen things too much on a lathe, so I just use a fine tooth safe file to do this job. A safe file is one which has teeth only on opposing sides, but is smooth on opposing edges. That helps the file remove metal only on the tapered surface and not on the gasket face.

You could use machinist's blueing dye inside the case edge to identify the tightest spots, but I've not found that to be necessary. Usually you can get a feel for the high spots by just wobbling the front plate when it's almost seated.

R/C Old Timer Glider

From Grant Manwaring

As mentioned in the last issue of Duration Times, we will be holding a glider event test day at the Muswellbrook meeting, this will give us an opportunity to fly the gliders and get more familiar with winch launching. Both winches have new 100lb line installed. I am hoping for a good roll up for this event. I am also looking to hold a test day / event early in 2012, at a central location. More details in the next Duration Times.

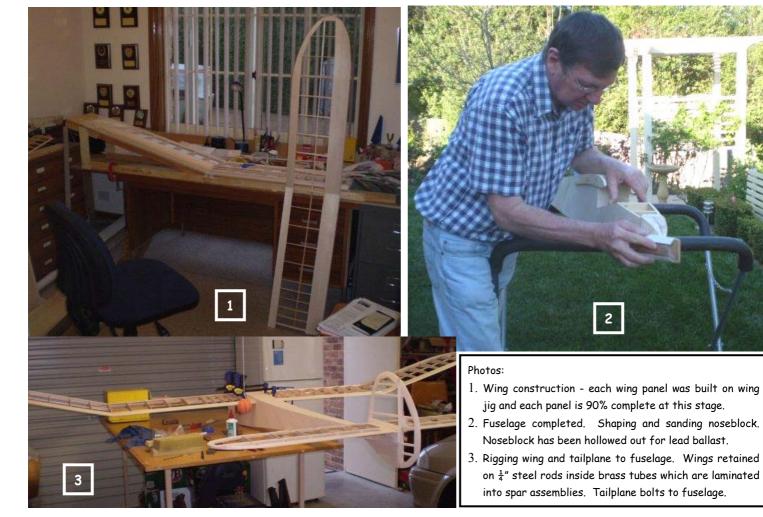
In anticipation of a larger number of entries at the 2012 SAM Champs at Canowindra, the Old Timer Glider event has been scheduled for Thursday 5th April 2012, from 1.00pm - 4.00pm. This timeslot allows 3 hours to run the event over 4 rounds and not impact on other events. Tomboy event is scheduled at 4.00pm - 5.00pm Thursday after Oldtimer Glider.

From discussions with fliers, there is interest in the event for 2012. I spoke with Dave Paton at Wangaratta and he and others from Queensland have intentions to build a glider, some of the Victorians are talking about it as well. Alan Laycock has returned from overseas with a partial kit for an Italian design. Also from Canberra David Beake has a new Thermalist and Ian Harman has a DG67 ready to go. I have also built a Thermalist for this event.

My winter building project this year has been a Thermalist glider. I started this model 12 years ago, completed the fuselage and tailplane. I have retained the original fuselage, built a new tailplane, fin and wings. Wingspan is 11'6". It is a big model but should fly really well. Covering will be red tissue/doped fuselage, translucent yellow Monokote wings, tailplane and fin. I now have the model finally sanded and ready for covering. I have included some photos taken through the building of the model. The Thermalist plan was published in Duration Times No 170. I have a full size and a 75% size plan I can make available if you want to start building.

Once again both Basil Healy and myself can help with plans and I have previously listed them in Duration Times. Check them out in the back issues. Dave Brown can also cut partial kits and he has a number of glider plans on file. Now is the time for you to get started on your entry for 2012.

<u>Contact Details</u>: Grant Manwaring 7 Arthaldo Court Nicholls ACT 2913 Email: grantandmary7@gmail.com.au Telephone: 02 6241-1320 Basil Healy 4 Casuarina Close Umina NSW 2257 Email: basnpat@tac.com.au Telephone: 02 4341-7292 Dave Brown – Model Draughting Services 2 Carey Street Wallerawang NSW 2645 Email: daveb@ix.net.au Telephone: 02 6355-7298







Photos:

- 4. Final assembly, all hatches in place, pilot and canopy in place, this is a big model to move around.
- 5. All components ready to cover and finish.

Grant advises that he has a full size and a 75% size plan I can make available if you want to start building.

Also, don't forget that there will be a glider event test day at the Muswellbrook Oldtimer weekend on 22-23 November, 2011, where you will have an opportunity to fly your gliders and get more familiar with winch launching.

For more information contact Grant Manwaring or Basil Healy - see contact details on page 4.



A winch photo from Cootamundra.

Basil Healy took advantage of the wide open spaces at Cootamundra to fit new line on both of the electric winches which will be utilised in the Oldtimer Glider event at the 2012 SAM Champs at Canowindra next Easter. The measuring wheel used is laying on the ground to Basil's left.

This will ensure that both winches will be of equal length and quality and should ensure that delays which occurred last Easter, when there were numerous line breaks, should be less of a problem next Easter. Also the new, high quality line is a little stronger than last year.

Grant Manwaring and Basil Healy are doing everything possible to ensure the success of the Oldtimer Glider event in 2012 so get your oldtimer glider built and tested asap.

Photo is from Peter Smith (Canberra).

A Frank Ehling true story....

Many years ago I became interested in chasing down some of the trophies won by the early model airplane participants who lived in the Washington, D.C. area.

Frank Ehling was living in the Laurel, Maryland area and I drove to his home. A gentleman friend answered my knock on the door and came outside so we could speak - evidently Mr. Ehling was inside taking a nap. I asked how many trophies were still left from his many years of competition. "Most all of them I expect" the man told me.

I asked if I could see them, and he said "Well, not very easily.....we were putting in this cement driveway last year and about a yard of concrete short, so the delivery man asked if we had anything to use as fill to add to the concrete.....We pulled out all the trophies and dropped them into the concrete as it was being poured, so they are save forever, but not accessible........

Reed Martin Cabin John, Maryland reedbanjo@verizon.net

EASTERN STATES GAS CHAMPS WANGARATTA 1-2 OCTOBER, 2011. RESULTS '38 Antique MANWARING RC1 Grant Burford 5cc d 1200 1121 Peter SCOTT 1936 RC1 Whirlwind 60 1200 661 Basil HEALY 1936 RC1 Sparey 5cc d 1200 464 BROWN 1938 Flamingo O&R 60 1200 Dave Michael WALSH Anderson Spitfire 1200 Westerner 1086 Thunderbird Burford 5cc d Dave PATON 1936 RC1 985 Steven GULLOCK Burford 5cc d DC 350 d California Chief 876 Barry BARTON 600 1936 Red Zephyr Kevin FRYER McCoy 60 Gordon Burford Event Peter R. SMITH Ollie Taipan plain 600 459 Peter J. SMITH Spoofem Taipan plain 600 440 Dave. PATON 1942 Stardust Spl Taipan plain 600 351 Taipan BB Robert SMITH Faison 600 313 Basil HEALY Dixielander Taipan plain 600 173 Taipan plain Steven GULLOCK Swiss Miss 600 125 Ian HARMON Little Diamond Taipan plain 600 Grant MANWARING Eliminator Taipan plain 600 Nostalgia Peter SCOTT Ultra Hogan K & B 40 840 464 David BEAKE 1944 Swayback K & B 40 840 436 Michael WALSH Hyphen K & B 40 840 431 Peter Van de Waterbeemd Spacer K & B 40 591 252 Geoff POTTER 1944 Swayback K & B 40 Duration Peter J. SMITH 1941 Playboy 112% McCoy 60 840 1617 BROWN 1938 Bomber 85% Saito 56 4/ 840 1405 Dave Michael WALSH 1942 Stardust Spl YS 63 4/ 840 Dave PATON 1941 Playboy 105% OS 61 4/ 840 Kevin FRYER 1936 Cumulus 92% OS 46 FX 840 Peter Van de Waterbeemd 1938 Bomber 85% Saito 56 4/ 840 Robert TAYLOR 92% Cumulus YS 63 4/ 840 Peter KEELY 1938 Bomber 85% OS 56 4/ 840 Peter SCOTT 1941 Playboy Saito 62 4/ 840 MANWARING Grant 1941 Playboy YS53 4/ 840 Steven GULLOCK 1936 75% Dallaire OS 52 4/ 840 Geoff POTTER 1941 Playboy 111% TTiger 46 2/ 840 Basil HEALY Megow Chief YS 53 4/ 714 Grahame MITCHELL 1941 Playboy Super Tiger 34 639 550 Barry BARTON 1936 RC1 OS 46 FX 1941 Playboy Brian DOWTE OS 46 2/ 467 420 David BEAKE 1941 Playboy Cabin Dooling 60 Texaco Robert TAYLOR 1938 Racer 75% 0.5.614/ 1200 1196 OS 60 4/ 1200 1195 David BFAKE 1938 Bomber Kevin FRYFR 1938 Bomber Irvine 40 d 1200 1158 Steven GULLOCK 1938 Bomber 85% Enya 53 4/ 1200 1081 Pat KFFL.Y 1938 Bomber 85% Magnum 52 4/ 1200 1032 Basil ASP 32 d 1200 1026 HFALY 75% Dallaire MANWARING OS 60 4/ 1200 1017 Grant 1938 Bomber 0.5.364/ 1200 985 Dave PATON 1938 Bomber 85% Peter Van de Waterbeemd 1938 Bomber ASP 61 4/ 1200 820 Dave BROWN 1938 Flamingo 0&R 60 1200 795 Peter SCOTT 1936 Buccaneer Forster 99 1200 724 Michael WALSH 1938 Westerner Anderson 1200 718 Geoff POTTER 1938 Lanzo Bomber 0.5. 61 4/ 1200 Brian DOWIE 1938 Lanzo Bomber OS 61 4/ 1135 Ian HARMON 1938 Bomber Enya 53 4/ 600 Peter R. SMITH 1938 Valkyrie OS 60 4/ 560

Top Gun

Top Gun (Champion of Champs) was Dave Paton from Queensland Vintagents SAM 84.

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<u>Tombo</u>	<u>by</u>				
Grant	MANWARING		Irvine Mills	s .75	538
Peter	SCOTT		Scholloser	1cc	523
Peter R	.SMITH		ME Heron	1cc	491
David	BEAKE		Irvine Mills	s .75	464
Basil	HEALY		Mills .75		302
Peter	Van de Waterb	eemd	Doonside N	ills .75	232
<u>1/2a</u> [·]	<u>Texaco</u>				
Dave	BROWN	1938	Bomber	720	3241
Dave	PATON	1942	S'dust Spl	720	2956
David	BEAKE	1942	S'dust Spl	720	2919
Robert	SMITH	1941	L'Diamond	720	1762
Barry	BARTON	1942	S'dust Spl	720	1590
Basil	HEALY	1941	Atomiser	720	1270
Peter	SCOTT	1941	L'Diamond	720	353
Michael	WALSH	1942	Kerswap	720	259
Grant	MANWARING	1941	L'Diamond	720	145
Ian	HARMON	1941	L'Diamond	720	
Greg	LEPP	1942	S'dust Spl	633	
Kevin	FRYER	1941	Atomiser	623	
Peter R	.SMITH	1938	Valkyrie	522	
Peter	Van de				
	Waterbeemd	1941	L'Diamond	510	

THE EASTERN STATES GAS CHAMPS 2011.

Report from Basil Healy.

1114

1041

720

712

687

579 519

369

268

Things did not look good for the Eastern States Gas Champs when we encountered strong winds and the occasional shower of rain on the trip south and they did not improve any when we were greeted by steady rain on Saturday morning. Anyway, we gathered at the flying field and at 9am we made the decision to re-assess the situation at mid-day, following a look at the weather pattern on Robert Smith's I-Pad. (A'int modern technology great!).

Meanwhile the Wangaratta Club's canteen did a great job of providing cups of tea and biscuits. The SAM Committee also made use of the time to hold a meeting to discuss progress on the 2012 Championships organisation.

After a further check on the weather situation and an early lunch '38 Antique got under way at about 12.30pm. About halfway through the shortened event (three rounds, two to count) we had to come off the field due to another shower of rain, but flying resumed about 15 minutes later.

The Gordon Burford Event and Nostalgia events followed once more to the shortened format and proved to be uneventful until the fly-off. Grant Manwaring's Eliminator was seen to be performing the most extraordinary aerobatics under power and did not settle down until he shut the engine down. To add further to his woes the landing was outside the designated area.

After a bad engine run and a mediocre glide time I brought my Dixielander in to land just off the end of the cross strip to be followed by a big splash. I had landed in the creek! The model was undamaged, the receiver and servos dried out O.K. but battery

pack did not.

With the completion of the Gordon Burford and Nostalgia events at about 4.30pm it was decided to call it a day and try to stage the remaining evens to the same shortened format on the following day.

Saturday evening about 25 people gathered at the Sydney Hotel for a very enjoyable meal. We had a separate room all to ourselves.

Sunday morning dawned fine and clear with hardly any breeze at all. Tomboy was first up with only 6 competitors but no shortage of good natured ragging of one another. Grant Manwaring made up for his disastrous fly-off the previous day by winning this one. Duration followed and was dominated by the spark ignition engine powered Playboys with their 40 second engine runs. Unfortunately David Beake's Dooling powered model did not make the fly-off.

Then it was time for $\frac{1}{2}A$ Texaco. Conditions were almost perfect for these little models and two thirds of the competitors made the fly-off. What a fly-off this was! We all launched into a massive thermal right over the field and settled down for the long flight. Twenty-one minutes only got me 6th place. The three Daves were conducting their own quiet battle at great height under a cloud, but it was Browny who finally came out the winner with a flight of 54 minutes.

Then it was time to prepare for Texaco. After a few ribald comments from Robert Taylor about whether his old four-stroke engine could stand up to the 10% nitro fuel supplied we started flying. There were no dramas during the event until the fly-off when, with three quarters qualified there was going to be a severe shortage of time-keepers. However, with the help of the Wangaratta Club members and a few of the competitors wives, we managed. Times achieved in this fly-off was nowhere near as high as those recorded in $\frac{1}{2}A$ Texaco due to a cool light breeze which had sprung up.

Trophies were presented by Peter Scott, the SAM 1788 President. Champion flyer for the week-end was Dave Paton from SAM 84 Vintagents, Queensland. Congratulations Dave.

From Bruce Ramsay auscanav@bigpond.com

Greetings to all my SAM friends. Thanks for DT171 - always good reading. Currently divorced from my modelling for a few months due life's commitments. I'm up at my place in Gayndah QLD, but all good generally.

Just did my PPL renewal so that's always good at almost 68 yrs. Pics of planes I work on up here, my daughter Caroline, little Jimmy 1 year old and his grand mother Marion.

Will be at Canowindra Easter. Cheers Bruce Ramsay.





Ray Heit and his Scram





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Phone David Owen 02 4227-2699

The GB Day at KMFC and other Weighty Matters

From David Owen

Kuringai Model Flying Club hold an event each year dedicated to maintaining the memory of Gordon Burford and his wonderful contribution to Australian aeromodelling. This is a control-line day and consists of fun events which include aerobatics, speed, vintage A team race and Sabre trainer fly-by. Models must be powered by one of Gordon's engines, though this year the event was broadened to allow the use of other Australian-made engines.

The culmination of all this is the Concours event. This is open to Australian model designs only and brings forth quite a number of very well-prepared and finished models awaiting the popular vote. This year the clear winner was Steve Thomas from Wollongong, whose very attractive Ki-61 Hein, powered by one of the early T2.5cc diesels, took out not only the Concours, but the Aerobatic event as well. The Hein is a Geoff Pentland design, which was kitted by Kookaburra in the late '50s. It is also the C/L choice for next year's Vets Gathering at Muswellbrook. The kit is available from Dave Brown and builds into a sleek, light 44"stunter, suitable for 2.5cc diesels and glows.



Certificates were awarded to place-getters in the various categories, whilst the winners took home very nice, engraved beer steins. Congratulations to all the KMFC members who put on this excellent event. We are all looking forward to next year.

Model Choices for the 2013 Vets Gathering.

Each year at the Vets' participants are asked to vote on the model choice for the following year. Next year, the chosen models are the aforementioned Kawasaki Hein (C/L) and the Piper Cub (F/F & R/C). Also next year (2012), we will be deciding the C/L and F/F models for 2013.



Another popular Concours entrant was Roy Summersby's Kutlass, a 37" stunt wing design from well-known Victorian modelers Blackham and Hyde. The Kutlass was also offered as a kit back in 1955, with over a thousand being sold. Roy's beautifully built example was powered with a seldom-seen Glo Chief 29 ballrace glow, which was marketed for a brief period around 1963.

Displays of engines from Australian builders such as Steve Rothwell, Rob Jenkins and myself were added to those from Gordon Burford and created much interest.



Rod Jenkins engine display at KMFC Burford Day.

I am pleased to say that I already have three starters: the C/L

Kutlass from Roy Summersby, the F/F 1956 Scrambles Winner (a Cyril Marsden design) from Howard 'Gossie' Gostelow and the C/ L Model News Fokker Tripe from Mark Nelson. Any one of these would be a worthy choice, but I would like to have others. The eligible designs must be Australian in origin and I welcome suggested entries for the vote.

The KK Champ for Phantom Racing at Canowindra SAM Champs next year.

I get the impression that the simple Champ will be a popular choice next year. Full details of the event were published in Duration Times No. 171, but I did neglect to add that the winner of the Champ class will also be noted on the Phantom Shield. The little MPJet Classic diesel will be well-represented, with several fliers buying one specifically for this event. Eligible engines are the Mills .75 and variants and the Classic.

Americans fly diesels too!

The following interesting story came from a good friend of mine, Ed Solenberger. Ed lives in Santa Rosa, great wine country near San Francisco. He loves engines and has taken the time to make some runners out of the discredited Deezil, an early American diesel disaster. Here's Ed's story:

" Over half a lifetime ago, I joined thousands of youngsters who sent their lawn-mowing money to that Great Hobbystore, Gotham Hobbies for a "Real Deezil Motor"

Each passing day seemed like a lifetime, with anxious trips to the mailbox, to see if my treasure had arrived. In due time, the small package arrived. However, even with the help of the friendly local chemist, who formulated what he thought was the best diesel fuel known to man, the engine refused to even try. I wrote to Gotham and never received a reply. Time passed and life went on.

A few weeks ago, I was awakened from sound sleep by the phone next to my bed. A very pleasant voice, with a New York accent, said that he had found my letter, and there was a box in the warehouse labelled "OS Pistons". He said he had always thought they were for OS Max engines, but they were, in fact, oversized pistons for the DEEZIL and he was sending me 3 new pistons, and hoped they would fix my engine, at no charge!

Hearing my voice, my dog put her cold nose on my neck, and only then, I realized that I was sitting on the bed, talking into my slipper. (this is what too much NAPA wine does to you - David)

Recently, I spotted what looked like the DEEZIL in the old ads. Not the ones folks are selling on EBay, but one of earliest ones. Hurray, this one was very

well made, and properly fitted, so that it was capable of actually running! After adding a tank and a better prop drive, it did exactly that. Not only that, but it has flown my 1/2 size 1934 Lanzo RC1.

I have spoken with many Old Timers and none have ever seen one run, let alone fly a model. Is it possible that this an historic first?"

Well, we don't know whether Ed is the first to fly a model with an original Deezil, but his RC1 looks great. Thanks for the story and image, Ed.

There is no Free Lunch

That's right, and in return for rabbiting-on I am allowed a brief plug.

The current OWEN ENGINES Price List is at: www.modelenginenews.org/oea

and there you will find great stuff, such as MPJet, PAW and Schlosser engines and useful modelling accessories.



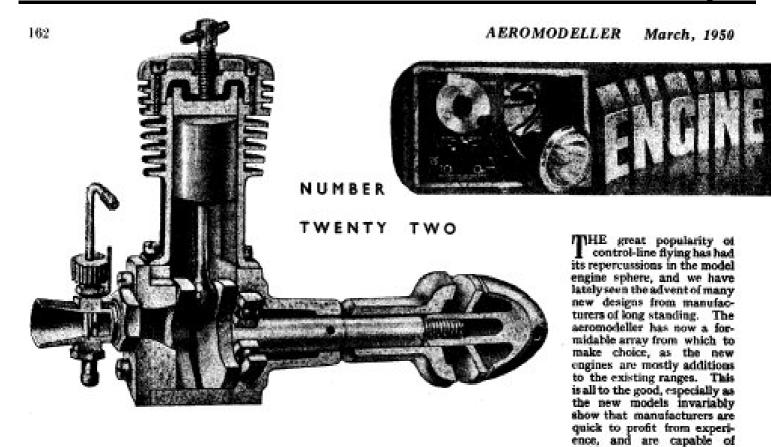


Above: The engraved beer stein awarded to the winners at the KMFC Burford Day.

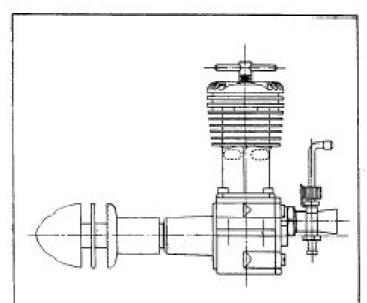
Left: The Owen Engine display at the KMFC Burford Day.

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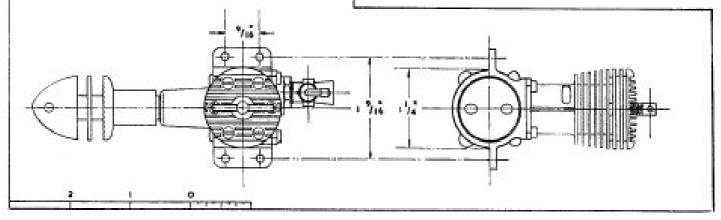


The E.D. Mark IV.



making their products better and better. Improvement seems to run along the lines of more efficient porting arrangements, the increased use of rotarydisc inlet valves, and the incorporation of ball-bearing crankshafts. These factors, coupled with an intelligent use of suitable materials for the more highly-stressed parts, have resulted, in the main, in engines of reliability and power not deemed possible a few years, or even months, ago.

The E.D. Mk. IV Diesel is a good example of this fortunate trend, and shows that British engines can equal those fabalous output figures given by American manufacturers; of which we were, perhaps unjustly, rather sceptical in the past. The test results of the present engine show that a unit of just over 3'5 c.c. capacity can yield an output of more than $\frac{1}{4}$ horsepower. Aeromodellers in general do not, perhaps, quite realise what this means, but may be moved to a better appreciation by remembering the fact that it has been reliably computed that a strong man can develop about 1/3 horsepower in an all-out effort for a short time. This proposition may be somewhat difficult to grasp at first sight, but may be better understood if one imagines a 10 in. propeller coupled by suitable gearing to a hand crank. How many of you think that you could turn the airscrew at 10,000 r.p.m.? Assuming that one could turn the hand crank at 100 turns per minute, it would be necessary to gear up the airscrew in a 100 to 1 ratio. Translated into terms of pulleys and belt, this would mean a 1 in. pulley on the airscrew with a driving pulley, attached to the hand crank, of 8 ft. 4 ins. in diameter 1 It is hoped that these observations may help to bring to life the



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graceful little curves which appear in these pages.

As for the qualities of the latest E.D. engine the power curve really says all that there is to say. It may be mentioned that it ran consistently at all tested speeds, and seemed exceptionally happy at those above the 10,000 r.p.m. mark. The engine was not exceptionally sensitive to throttle control, and a fair latitude in needle setting could be permitted without noticeable effect. Similarly, the adjustment of the compression lever was not unduly fussy, so that the engine was extremely easy to handle.

TEST

Engine : E.D. Mark IV 3 46 c.c. capacity Diesel. Fuel : E.D. " Competition."

Starting : Pulley-and-cord used for convenience of test, but engine started without trouble when experimentally handstarted from time to time.

Running : Extremely consistent at all speeds, but especially so at the higher ranges. Behaviour under various loads was characteristic more of a 4-stroke than a 2-stroke. At no speed range was fluctuation and hunting evident. There seems to

be a slight vibrationary period at around 9,000 r.p.m. B.H.P. : A maximum output of 285 bh.p. was found at 13,300 r.p.m., although but slight output variation was evident between about 11,400 and 14,900 r.p.m. Between these speeds a drop from maximum of only '015 b.h.p. was noted. Output is exceptionally consistent at the higher speed range, and it may be said that the engine is running efficiently at any speed between 10,000 and 15,000 r.p.m. Beyond this speed power falls rapidly, while at the other end of the scale a marked decrease is noted below about 7,000 r.p.m.

Checked Weight : 6.5 czs. less tank.

Power/Weight Ratio : -650 b.h.p./lb. Remarks : Engine was run-in for 1} hours continuous running at 4,000 r.p.m. No mechanical trouble experienced throughout test. The engine is noteworthy for its high power output, easy handling, and consistent running qualities. Also for the fact that the measured b.h.p. is in excers of that claimed by the manufacturers whose figure is '25 b.h.p.

GENERAL CONSTRUCTIONAL DATA

Name : E.D. Mark IV.

Manufacturers : Electronic Develop-ments (Surrey) Ltd., Kingston-on-Thames. Retail Price : £4. 12s. 6d. Delivery : Immediate. Spares : Immediate. Type : C. L. Diesel. Specified Fuel : E.D. Standard Fuel. Capacity : 3:46 c.c., 21 cu. ins. Weight (bare) : 61 czs.

Compression Ratio : 18 : 1.

Mounting : Beam, upright or inverted.

Recommended Airscrews : 91×6 ins. to 11×5 ins. Flywheel : 21 ins. diameter, 41 ozs.

Tank : Separate.

ΒY

SPAREY

н

Bore : '656. Stroke : '625.

Cylinder : Hardened steel, flange fitting, attached to crankcase by four screws.

Cylinder Head : Dural. Finned. Attached by six holdingdown screws.

Crankcase : Die-cast aluminium alloy.

Piston : Cast iron. Flat top. No rings. Contra Piston : hardened steel. Adjustment by Vernier screw.

Connecting Rod : Hardened steel. Floating bronze bush big end.

Grankpin Bearing : Floating bronze bush.

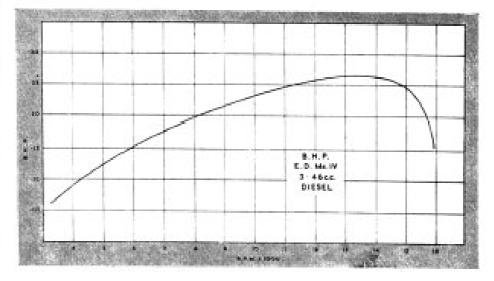
Grankshaft : Hardened steel.

Main Bearing : Single ball-race inner, plain outer,

Little End Bearing : Plain.

Grankshaft Valve : Disc induction.

Special Features : Big end designed to prevent scouring of crankpin, easily replaceable when worn. Transfer ports machined in cylinder skirt. Outside cylinder skirt is camturned to maintain even section. Ball-race crankshaft.

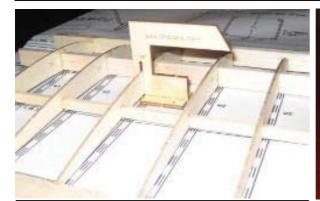


IDEAS FOR USEFUL BUILDING JIGS FOR WINGS AND FUSELAGES.

From Bob Holman Plans Laser cut parts for Oldtimer Models http://www.bhplans.com/

NEW LASER CUT PLY BUILDING TRIANGLES

THESE ARE LASER CUT FROM 1/8" BIRCH PLY AND INCLUDE THE LOCK-ING BASE SO THAT YOU CAN PIN THEM TO THE BUILDING BOARD. AVAILABLE IN 3", 5 1/2", AND 7 1/2" - 10 FOR \$5.00 + SHIPPING



NEW LASER CUT RIB GUIDES (PICTURED ABOVE) LASER CUT FROM 1/8" BIRCH PLYWOOD. IN-CLUDE LOCKING BASE SO THAT YOU CAN PIN THEM TO THE BUILDING BOARD. 3 SIZES AVAILABLE FOR 1.25" HIGH RIBS 1/16", 3/32" AND 1/8". PICTURED ON THE RIGHT: 2 SIZES FOR 3/32" AND 1/8" RIBS, 3" OR 4" HIGH. SOLD IN PACKS OF 10 FOR \$5.00 + SHIPPING

FUSELAGE JIG FROM BOB HOLMAN. (PICTURED RIGHT) PICTURE OF A LASER CUT FUSELAGE JIG THAT I HAVE AVAILABLE. HAVE SOLD A FEW. HOLES FOR THE BLIND T NUTS. UPRIGHTS ARE LASER CUT IN 3 PIECES.

Fuselage Building Jigs from Dan McLeod mcgdci@adelphia.net

Here is the fuselage jig I made for ideas if you are wanting to build your own. Note that the whole model may be built off and above the fixture.









соот	AMUNDRA OL	DTIMER W	EEKEND	- RE	ESUL	TS.	COOTAMUNDRA OLDTIMER WEEKEND.
	October, 2011						22-23 October, 2011.
120 4							From Basil Healy.
<u>'38 An</u>				10	1000	000	The "Coota' Cup" Revived. Saturday dawned fine
Peter J.		38 Standby	Madewell 4		1800	900 76 3	
Dave		38 Flamingo	O&R60		1800	763	and warm with little or no breeze at all. Having set out the
Peter		36 RC1 36 RC1	Whirlwind		1800 1745	618	witches hats to define the landing area the previous after-
Basil			Sparey 5cc		1524		noon there was nothing left to do but collect the entrants
Tim		38 Pixy	ED comp S	рі	1524		model data and prepare to fly.
	Burford Event.					440	Antique got under way at 9.30am with five entries, three
Peter R.		Ollie	Taipan plai	n	900	419	of whom made it to the fly-off. Tim Wright experienced
Robert	SMITH	Faison	Taipan BB		900	379	problems with fuel venting from his tank with the engine
Peter J.		Spoofem	Taipan plai		900	292	running but Peter Scott offered a fix to the problem and
Peter	Van de Waterbeem		Taipan plai		767		he then went onto record a max. Peter "Condo" Smith won
Tim	WRIGHT *	Spacer	Taipan plai		707		the fly-off.
Basil	HEALY	Dixielander	Taipan plai	n	300		,
<u>Duratio</u>							Next was the Gordon Burford Event and Nostalgia run con-
Peter J.		1941 Playboy		Coy60		1260	currently (a practice which we will not be trying again!).
Geoff	POTTER	1941 Playboy		iger46		1207	Geoff Potter experienced problems trying to keep his K&B
Peter	SCOTT	1941 Playboy		ito62 4		1136	40 running in the air. Peter Scott won the Nostalgia event
Peter	Van de Waterbeer			ito56 4,		1097	with three maxes. There was no fly-off in Nostalgia. Bur-
Michael	WRIGHT	Sunduster		ito62 4,		1036	ford was a "Smith Benefit" with Peter R. first, Robert sec-
Tim	WRIGHT *	Bomber 92%		ito56 4,		946 750	ond and Peter J. third. I crashed in the second round
Dave	BROWN	1938 Bomber		ito56 4,	/	750	when a wire joining the two halves of the battery pack
Basil	HEALY	Megow Chief		53 4/	,	653 23	broke. Damage to the model was minimal due to the long
Robert	SMITH	1941 Playboy	501	ito56 4,	/	23	grass.
Nostal							Duration was flown in the afternoon in conditions that
Peter	SCOTT	Ultra Hogan		B 40		1260	
Dave	BROWN	Civy Boy		rco 61		588	were not conducive to achieving maxes. Thermal activity
Geoff	POTTER	1944 Swayba	ск ка	6 B 40		149	at height was evident at times but below about 500ft sink
<u>1/2a T</u>							was the order
Basil	HEALY	1941 A†			1080	721	of the day.
Dave	BROWN	1938 Bo			1080	649	Only Peter SPEVALITIANARY?
Peter	SCOTT		Diamond		1080	532	"Condo" Smith 2 NLTULUIIUNANI >
Tim	WRIGHT *	1941 A†			1080	360	made three (NEW MOTOR)
Peter	Van de Waterbeem		Diamond		1080	309	maxes so S NFW MILLIK >
Robert	SMITH		Diamond		1080	116	there was no 2
Sarah Datau D	WRIGHT *		dig Stick		1080		fly-off.
Peter R.		1938 Va	likyrie		0		
Texaco							Saturday eve-
Robert	SMITH	1938 Lanzo Bo		60 4/	1800		ning we had a
Steve	WHITE	1937 Lanzo St		640 4/	1800	541	meal at the
Basil	HEALY	75% Dallaire		P32 d	1776		
Dave	BROWN	1938 Flamingo		R60	1744		and street ad the
Peter	SCOTT	1936 Sup.Buc		ster99			and a convivial conversation
Tim	WRIGHT *	1938 Bomber		540 4/	1663		oftenwanda
Peter	Van de Waterbeem			P61 4/			and a convival conversation afterwards. Sunday morn-
Peter R.		1938 Valkyrie		60 4/	1547		Sunday morn-
Geoff	POTTER	1938 Lanzo Bo	omber OS	61 4/	1194		ing saw us
Coota (<u>Cup Winner</u>	Peter Scott.					
							back at the Here it is—the new and different motor unit field for $\frac{1}{2}A$ you've been waiting for at a price any model builder can afford. It's SKY KOIL 32! A light.

Texaco. Six of the eight starters made it to the fly-off including the two juniors, Sarah and Tim Wright. Unfortunately Sarah lost sight of her model during the flyoff and we have no idea which way it went. Peter R Smith also had a fly-away during Round 2 but we were able to get a good line on the way it went and it was recovered about an hour later. Dave Brown didn't have a cloud to hide behind this time so he and I had a good tussle over the hay shed in some weak lift which I eventually won.

Texaco was remarkable for the lack of maxes recorded. Only two fliers achieved three maxes, Robert Smith and Steve White. There was a breeze blowing but it was not very strong, but thermal activity was almost non-existent. Robert Smith came out a clear winner.

Peter Scott presented the trophies to the winners and place-getters the John Pettit, the President of the Cootamundra Club, present the "Coota Cup" to Peter for the top score for the week-end.

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ROK W ELL INDOSTRIES, Inc. 3924 Juniata Street, St. Louis, Missouri Enclosed find \$1.29. Please send me one com-plete SKY-KOIL 32 motor unit. If I am not thoroughly satisfied I will return motor within ten days for a full refund.

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sturdy spring-type motor made of the best ob-

tainable polished spring steel music wire. A single strand of this .032" wire will support a

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motor distributes the shock, and protects the fuselage. You no longer need excessive bracing

dead weight of 255 pounds.

or complicated design.

all for only \$1.29!



Works of Art from Argentina by Alfredo Hebron, above R/C Oldtimer Glider "Airone" and below So Long packed for travel by air to the SAM Champs in USA.

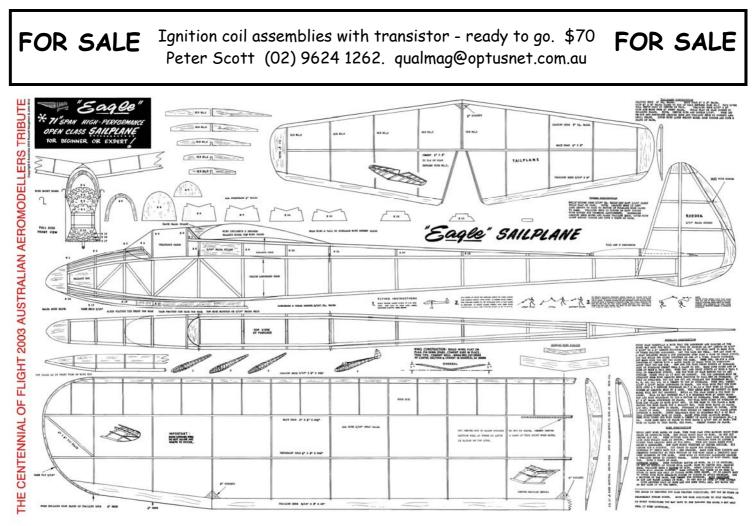


How does Kevin Sherman get that "purty colour" on his models?

An interesting article useful for larger rubber and gas models, published in the February 2003 issue of the "Flight Plug," the newsletter of the Southern California Ignition Flyers, Mike Myers, Editor.

Kevin Sherman writes about how he colours his models, which he covers with Polyspan. He says he uses House of Kolor Kandy paints, which are translucent. House of Kolor has been selling custom auto paints since the mid 1950's. In any event, here's Kevin: "The House of Kolor product is called an intensifier. I checked on the House of Kolor website and there are about 20 colours to choose from. We have found that it takes about 1 ounce of intensifier per quart of thinned nitrate dope. The intensity of the colours build as coats are added, so it is important to put it on fairly even so it doesn't look blotchy or streaky. After covering with polyspan, we brush 4-5 coats of 50/50 nitrate dope. We very lightly sand the covering with 400 grit paper (don't sand much or you will go right through the dope over the ribs). If numbers are desired, we put them on at this point. We use black tissue numbers, and apply them with acetone over the doped polyspan. Because the candy paint is translucent, you can paint it right over the numbers are applied, we put an additional couple coats of dope over them. We then are ready to apply the candy colored nitrate dope. We put three even coats, letting it dry good between coats. Don't try to get all your colour in one coat, as it will only cause problems. If you are not proficient at painting, spraying your coats in opposite directions is recommended (cross coating). After three coats of tinted nitrate dope is applied, we let that dry until it does not smell, and has gassed out all the thinner.

There are 20 different Kandy colors available. We fuel proof with Fuller Plast. One even coat does the job. It is a two part clear, and dries fully in about a day, depending on the weather. If the nitrate dope has become "milky" because of moisture in the air, it does not matter. The Fuller Plast will turn it back to perfection when it is applied. I have shot Plast on dope that was almost white from moisture in the air, and it turned it translucent in seconds. It is a great fuel proofer, and has excellent properties for extended life. We have used this method for about 10 years, and the Kandy paint does not fade at all (like most of the dyes do). The covering still looks almost as good as new. I am sure I missed a few things, but that is the basics of our methods. I use a cheap touch-up gun, similar to what you can buy from Harbor Freight. I think I paid \$25 for it. It holds about a 1/2-1 pint of material. I have a compressor and water trap system for the air supply. I buy the Fuller Plast at a local paint store called, "Fuller O'Brien". I think they may be just a local paint store. They offer it in gallon quantities, and it is about \$70 per gallon. It does do a lot of models though, so the price per model is quite low. Al Heinrich at Aerodyne sells it in smaller quantities." *Kevin Sherman*



~~ THE BACK PAGE ~~

From Peter "Condo" Smith, peter_condo@yahoo.com.au

During the Albury Nats Don Southwell and Grahame Mitchell lost models on the Table Top flying site (part of the Hume Weir). I stopped to check the flying site again on the way home from the Eastern States Gas Champs at Wangaratta and I thought, "MAY BE I FOUND THEM!

So can the pictures I took of them be included in DT and maybe Grahame and Don might recognise them. Ha Ha!!



By the way, the water at Table Top was 90 meters closer to toilets and BBQ area this October compared to 2010!



Some silks compared. from Dave Plumpe <plumpe@mindspring.com>

Thanks to the discussions on silk a week or two ago (2003), I decided to try some from fabric suppliers on the web. I ordered five yards each of 5mm Habotai and 3.5mm Gauze from www.silkconnection.com at US\$1.75 and US\$2.07 per yard respectively. Even I can afford that!

They arrived today, so I made some measurements to compare with some I had from decades past (maybe 30yrs since I last covered with silk):

Esaki #3 Light Weight (30yrs old): K&S Heavy Duty (30yrs old): 5mm Habotai (silkconnection.com): 3.5mm Gauze (silkconnection.com): 9.4 gm/sq.yard 14.0gm/sq.yard 16.0 gm/sq.yard 12.1 gm/sq.yard .0018" thick .002"thick .0022" thick .0037" thick 100x140 threads/inch 100x130 threads/inch 120x160 threads/inch 80x100 threads/inch

ch \$17.50 sq.yard now? ch \$17.50 sq.yard now? ch \$1.75 sq.yard n \$2.07 sq.yard

Thickness measured with dial caliper under moderate pressure. Same eyeball that counted threads/in.

The 5mm Habotai is lots heavier than the Esaki #3, so isn't a suitable substitute for those smaller planes. It does have a tighter weave, so should fill with fewer coats of dope, but will likely use more total dope because it's thicker.

The 5mm Habotai is pretty close to the K&S, except for price. Just a little heavier, but should be easier to fill. And did I mention, it's lots cheaper! I think I'll use it to cover a 72" J-3 Cub in another month or so.

The 3.5mm Gauze might be useful for straining fuel. They all smell about the same when smoked. Want another opinion? My wife says the Habotai "feels nice".