

Clear Dope

July 2024



Chichester and District Model Aero Club: Committee 2024

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This is Clear Dope is quite limited with content, due to the lack of articles, this always surprises me especially with the traffic on the various WhatsApp CADMAC groups associated with the club

MORE ARTICLES PLEASE

Dates for your diaries:

13th July Aerobatic competition, Thorney

27th July Electric glider and BBQ, Portshole



Sunday's Warbirds Fly In at Thorney had a good turnout with seven pilots competing plus a few more who simply bought their warbirds for the pleasure of flying them. Several pilots bought more than one model, whilst Toni Reynaud and Allen Miller must have emptied their hangars at home. Allen Miller recreated Crackerjack's 'Double or Drop' by somehow managing to carry his whole fleet at once.

The results from yesterday's Warbird Fly-In.

The intended static judging didn't happen, so all results are derived from the flying. Well done everyone who flew and attempted to fly. Congratulations to Ray for very smooth flying that earned him first place.

In case you can't read my writing, the results are:

First Place - Ray Shivjee, F-16 Fighting Falcon

Second Place - Fraser Dibden, Avro Lancaster

Third Place - Jeff Cosford, Spitfire Mk.II? & Spitfire Mk.IX

Fourth Place - Allen Miller, Kawasaki Ki-61 Hein & Ilyushin Il-2 Sturmovik

Fifth Place - Tim Kerss, T-28 Trojan

Sixth Place - Ken Knox, Yak 9 & P-51 Mustang (Dago Red)

Seventh Place - Toni Reynaud, Hawker Hurricane & English Electric Lightning

To the right,
the Victor at
the controls
plus hat and
warning cone





My VQ model of a Yak 9 Pretty but a very delicate printed covering



A Pusher trainer ? ?

With not too much knowledge of model building or model aircraft aerodynamics I thought a pusher trainer might be a good design concept. I had already seen a small pusher model promoted by one of the major model manufacturers for training.

Should save on propellers !

I set out on my design, a 60 in (1.5m) electric 5 channel flap equipped trainer with Spektrum AR 631 AS3X/SAFE receiver. However placing the motor behind the CG presents balance problems, solved by using a relatively large 4S 4500mAh battery giving a wing loading of 20oz to the sq ft, quite high for a trainer. The twin fins are the result of testing of a smaller 40 inch version, successfully flown by Derek, which showed that the prop airflow close to a single central fin and rudder resulted in a very large turning moment at full throttle. This 40 in. model flew well when fitted with twin fins

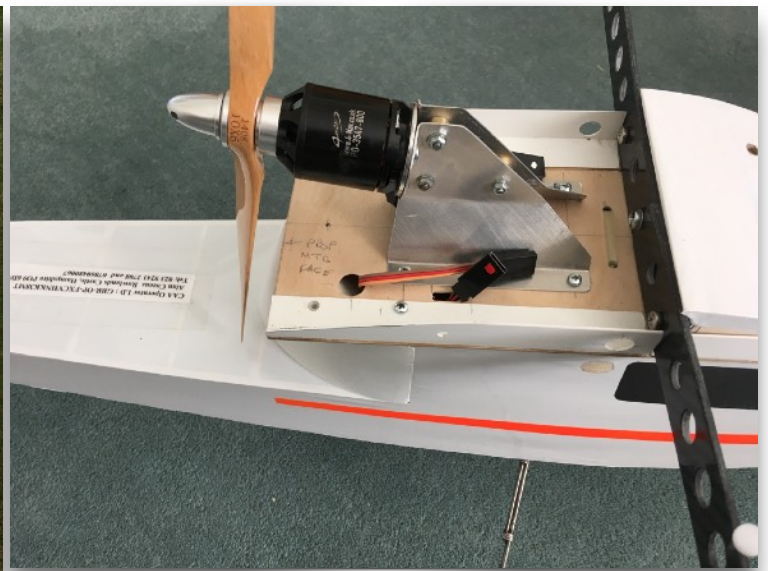
The turning moment problem could probably be solved by offsetting the engine mount but that would need a commitment to potentially damaging flight testing. Better make one step at a time.

Construction materials are balsa for fuselage and tail unit and wire cut foam for the wings. The carry through spar is 3mm carbon fibre but nylon 6.6 might be more forgiving in a crash. The engine mount is fabricated from 0.5mm aluminium alloy sheet and the firm mounting for this and the carry through spar adds significant design complexity and weight. Best bolt the motor on the front ? The covering is Ripmax Aerofilm on fuselage and tail, glass cloth/white glue on the wings. New to film covering I found the Aerofilm easy to apply giving an excellent finish.



The model now awaits testing but has at least been named - Thorney Pusher 2 – and maybe the wing loading will not be such a problem at that draughty location.

Alan Cozens



Ian Cathy writes

Through the Porthole Farm telegraph facility, I was given some details on a new 3d printing service based in Oving.

Tony Morris is starting to push his services as a new business, and I phoned him for more details. I thought you might like to put his details into the next Clear Dope.

Here is the email he sent me:

"A little about myself. Before the pandemic I was freelancing as a sound engineer and still do a bit of that currently. I've always had a 3d printer to make little parts here and there, but wanted to make it ideally my main job.

This year, I've started that, invested in 2 bambulabs X1Cs <https://uk.store.bambulab.com/collections/3d-printer/products/x1-carbon-combo> with a bed size of 256mmx256mmx256mm and am already supplying the AV industry with custom parts, cases etc.

I have more machines on the way. And will be looking at bigger capacity machines too.

I can print things bigger than the capacity of the machine depending on what it is.

The work is all word of mouth but I have a company I've just registered called minilabs3d. I have secured www.minilabs3d.co.uk and .com addresses but currently the website is being put together.

I have a designer that I work with for any custom designs where the STL files are not supplied. He is someone I know personally and has worked extensively in the aerospace industry.

I have been into RC drones/planes and cars most of my life.

To answer your questions

The following filaments available are:

PLA multiple colours including matte even glow in the dark !

PLA infused with Carbon Fiber

PLA Matte

PETG with different colours

ABS/ASA

PC/TPU

PA/PET

Carbon Glass/ Fiber reinforced

Also PLA Aero and ASA Aero specifically for RC _____

In terms of cost, I'm not looking to make things expensive.

Currently with the AV stuff, people are asking for custom things so it's a job by job basis where I'm charging per gram of filament and any design time.

With the RC world, I would like to at least cover the cost of filament with no design costs and charge £1.00 per hour of print time. Its really difficult as every job is different but I want to make everything really affordable and with good word of mouth., I will hopefully get more work."

Tony Morris' contact details.

His phone number is 07748 231052 and his current email address is: tonymorris1978@gmail.com



Date for your diary:

Fishbourne flying - Thursday 11th July

Fishbourne Playing Fields takes place on Thursday 11th July starting at 6.30pm.

So, come along for a club catch-up, and bring a model along to take to the air.

The rules for flying at the site are laid out in the Pilots' Handbook; always worth a re-read before the first annual outing.

Hope to see you there!

Jeff Cosford writes

"The Tasman is a favourite for Portshole and proving durable apart from the blow up tyres, which now have bicycle repair patches, and the orange paint. Like most foam models, the paint quickly comes off!

I went to Havant B&Q and they matched the colour and finish perfectly. Only £4.50.

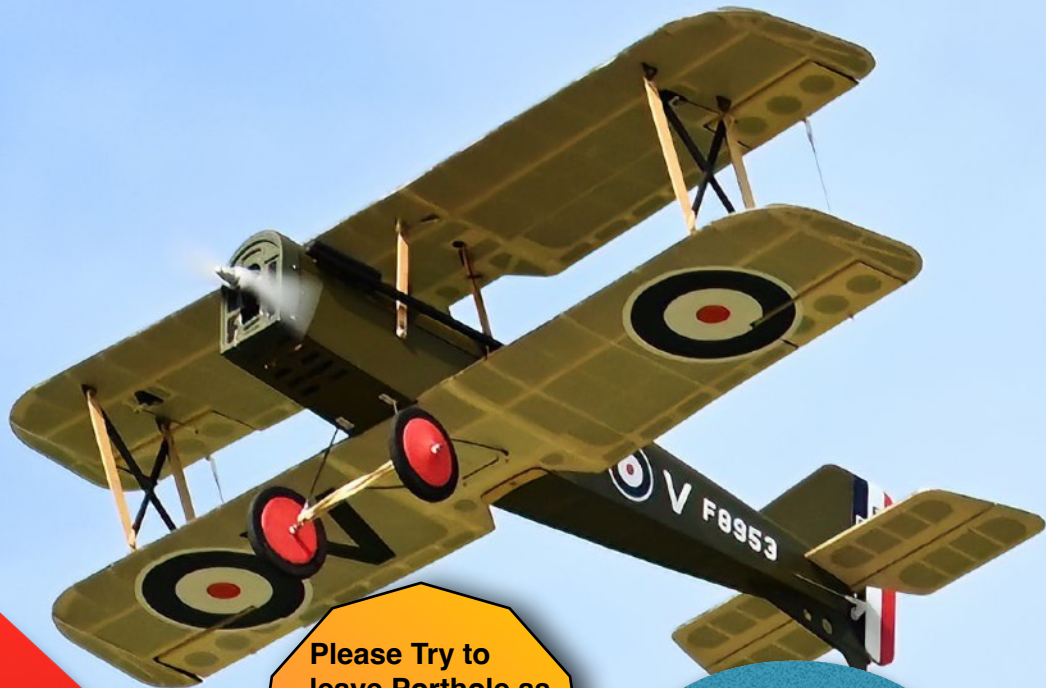
I intend taking the Spitfire and getting all the colours matched. "



Planned Event dates for 2024

13th July	Saturday	Aerobatics Competition	Thorney
27th July	Saturday	Electric glider comp & Barbecue	Portshole
3rd August	Saturday	Bungee/Electric glider competition	Thorney
17th August	Saturday	Bungee/Electric glider competition	Thorney
31st August	Saturday	Bungee/Electric glider competition	Thorney
21st September	Saturday	Reserve day for Bungee/Electric glider	Thorney
2nd October	Saturday	Speed Competition	Portshole
10th November	Sunday	Remembrance Sunday Glider Comp	Thorney





Flying alone on Thorney is now not allowed on the grounds of safety

Please Try to leave Porthole as tidy as possible, making sure no fuel is left on site & lock the gate.

30 metres from "uninvolved" persons"

15 metres when taking off & landing, subject to mitigations

From 1 Jan 21 BMFA Article 16 is law: know the separation minima!

When driving around Thorney be aware of young children on bikes and 20mph speed limit

The Commander at Baker Barracks Thorney and the MOD have decreed that there shall be NO drone flying whatsoever

When flying at Thorney please keep an eye out for traffic(all kinds walkers, horses, bikes, runners, and low flying aircraft) coming from behind the flyers and inform them accordingly

The club Facebook page is now in its fifth year. It has over one hundred members. It contains many contemporary site reports, and has a wealth of photos in its archives. Administered by Nick Gates. David Hayward & Ken Knox

Here is the link:-

<https://www.facebook.com/groups/Chichesteraeromodellers/>