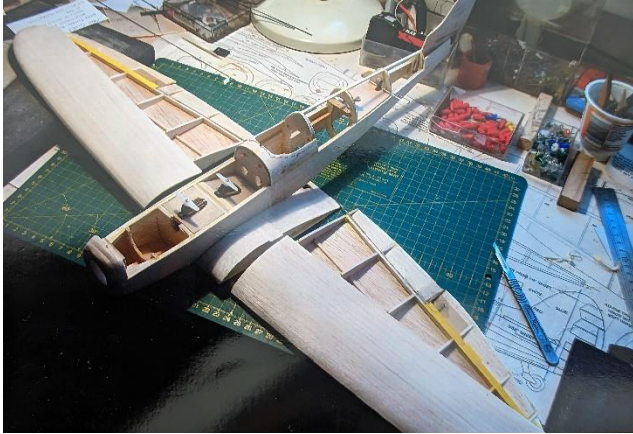


**Impington  
Model Aeroplane Club**  
Founded in 1946 by Ray Malmström

edited by Alan Paul  
alanpaul@outlook.com

May 2023  
Website <https://ivcmac.bmfa.uk>

## Geralds Spitfire Mk IX



This is Gerald Coopers Spitfire on the assembly line. It's a 27" span model made from the plans by "Quiet and Electric".

Gerald hopes to have it flying this summer and was saying that he will test fly it over long grass. Gordon Hannah overheard this and asked Gerald to tell him if he finds any long grass as his new Southerner is also getting ready for the summer season.

## Jester

John Clarke reports on his own design "Jester" indoor RC model.



You can no longer buy lots of the great indoor RC models like the ParkZone Ultra-Micro J-3 Cub which only weighs 32g with lipo and flies very well and not too fast.

This spurred me on to have a go at building a lightweight indoor RC plane with a target weight of not more than the Cub. Alan suggested that I increase the wing area so I upped this by 50% and Bob kindly gave me a sheet of 2.5mm Graupner Vector board.

I had seen that the freeflight E20 class use 20x8.5mm brushed motors which seemed to have enough power for a 30g model so I opted for one of those along with an all-in-one Receiver / Servo units from Micro Aces.

The wing is made of an upper and lower sheet of Vector board with a 3x0.5mm CF spar between. The rest is mostly CF rods which are held together with Kevlar lashings with a little CA glue to bind. Balsa seemed the best option for RX and lipo mounts.

The 3D printed parts (motor mount, servo horns, skids and pushrod guides) were designed on Fusion 360 (recommended by Bryan) which took a bit of time to learn (thank you YouTube tutorials) but has been great fun and an amazing piece of free software (to hobby users). Thanks also to Daniel who suggested that I should get a move on before the indoor season it over so I had a concentrated effort! The build was good fun and the AUW worked out at 30g so I am delighted!

It has had its maiden flight and has exceeded my expectations. It flies nice and slowly and turns tightly thanks to plenty of dihedral (I based this on the Elf 1m DLG). The motor mount needs less side thrust and some downthrust which can be easily change in Fusion 360 and reprinted.

What a great club where you can get all that help and support to have a go! Johns full build instructions are on the club website [here](https://ivcmac.bmfa.uk).

John has now bought a 1mm and 2mm pack of Pichler Super Board (formerly Vector) which seems to be a fine foamed polypropylene (can be glued with CA glue). There are 30 sheets of 1mm and 15 sheets of 2mm and would be happy to give some to any club member who is interested. It is slightly heavier but stiffer than Depron.

## Ready for a snack?



That's a 2m wingspan Radian being accosted by a Red Kite. He showed a lot of interest and was busy soaring away, but whenever he saw the plane he popped over for a closer look.

I feel that he was thinking "I can catch the thermals better than you" which was probably true!!

## A tale of 2 tossers.....

Trevor gave his Hangar Queen Vampire to Malcolm as it had spent the past 8 years gathering dust and was unflown.



It had 2 very successful flights – evidence in the video [here](#), but after the 2<sup>nd</sup> flight we were discussing the fact that the battery seemed to have shifted backwards during the flight.

Instead of doing something about this we basically just ignored the fact and put it up in the air again. Not a wise choice as it happened.....

Straight after the launch there was a terrible graunching sound from the plane, it pitched violently up and down and was pretty much uncontrollable.

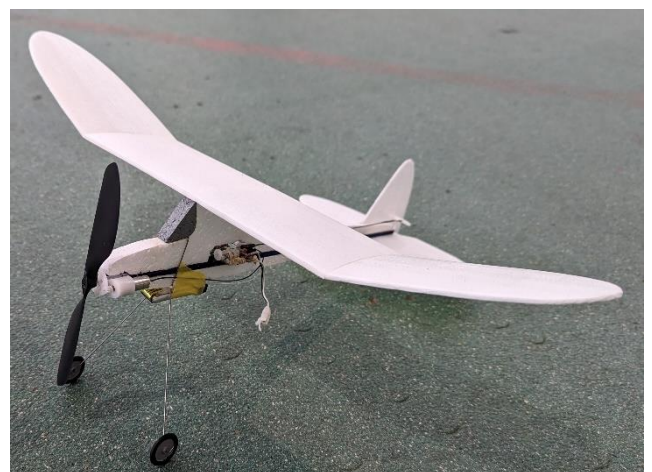
As you can imagine, the inevitable happened and it face planted in the field. The battery had shifted backwards and the balance lead had entered the fan and was completely shredded. The aft CG made the plane unflyable.



Malcolm is pictured here with the evidence of the nose first arrival. Trevor, who was watching events unfold was heard to say "I told you so".

The beauty of these foam models is that they are easily repairable and within 24 hours Malcolm had it ready to go again. I hope he made a mod to stop the battery shifting!!

## Jons Tradfly RC conversion



This is Jon Oakleys very nice Tradfly conversion using a 6mm motor and the gubbins from his old cub foamie. It flew really well last month – see the video [here](#).

## Presidents planes

A couple of beauties from Chris Strachan's extensive Hangar which have been seen recently in the Sports Hall.



A very nice yellow Cub – very traditional



A Granville Bee Gee Dart Midget racer scale model of the 1948 original.

As usual, these are top notch scale models from Chris.

## Identify this aircraft



Pictured at Duxford – answer at the end.

## World Record Attempt

You will have heard that the BMFA are having another go at beating their own world record of 3,109 aircraft airborne at the same time which was held last year.

We will be taking part once again and full details will be sent by e-mail. The attempt is on **Sunday 14<sup>th</sup> May**.

This session will be open to lightweight RC planes and all types of FF planes. There will be general flying between 11am and 1pm free of charge. We will have a 10 minute break to attempt the world record at 12 noon.

The format for the record attempt is to launch as many planes as possible at 12 noon and count the number in the air. It's hoped that some members will be able to launch 2 or more FF models at the same time to increase the numbers in the air. RC flyers will probably only manage one LOL.

There is no need to do anything other than turn up with a suitable model on the day. We will video the event, but the only requirements for record verification are to have a list of pilots and models plus a group photo showing everyone just after the event.

## Tiger Moth project anyone?



Alan Hoensch has acquired this nice 44" span Tiger Moth and wants it to go to a good home free of charge. It's just an airframe so needs radio, ESC and motor etc, but it looks a nice little project.

Contact Alan Hoensch on 07739 456937.

## Last hurrah competitions

Michael Marshall organised 2 competitions at the last indoor session this winter and writes –

It seemed appropriate to end the indoor season with a competition and this took place on the 8 April. To encourage maximum participation two events were run simultaneously, one for Peanut models and the other for Gyminnie Crickets.

A familiar IVCMAc formula was employed where each competitor could make five flights with the best three to score. Only four people entered Peanut but to my surprise Gyminnie Crickets were the most popular with fourteen entries. At a rough count there were about twenty people in the hall and the results are below.

### Peanut

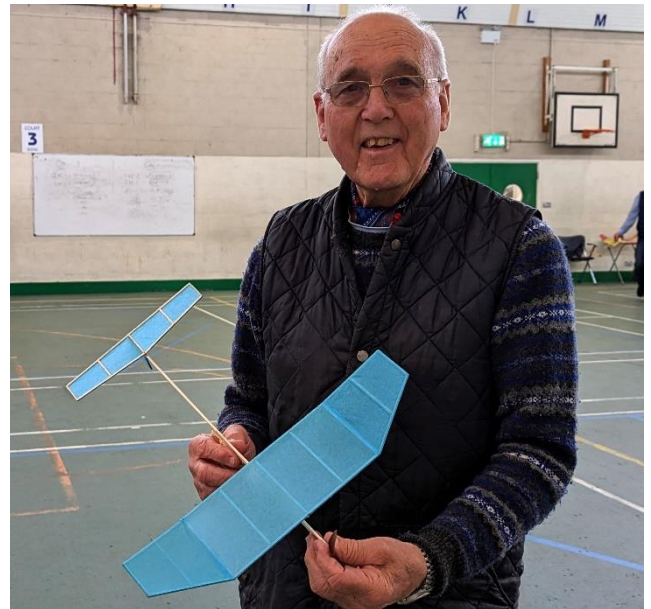
1st	Clive Anderson	96 sec
2nd	Paul Burling	94 sec
3rd	John Wynn	89 sec
4th	Michael Marshall	86 sec



Clive with his winning Lacey peanut scale model

### Gyminnie Cricket

1st	Clive Anderson	206 sec
2nd	Gary Flack	184 sec
3rd	Roy Selwood	180 sec
4th	Alan Paul	146 sec



Clive rose to the top again in the Gyminnie Cricket competition. In fact, flushed by his success and with a bit of cajoling from John Wynn and Gary Flack, Clive will be entering his Pistachio scale Fike in the indoor Nationals, so good luck to him there.

Many thanks to all those who people who supported this event, especially Tony Harper who did all the work.

Also thanks to Bruce for attending his daughters wedding and letting others get on the scoreboard LOL.



Another happy young competitor was Roy Bowrons grandson Ed who is 8 years old and was enjoying flying against the clock. Well done Ed.

## Donations for juniors

If any members have any RC or FF planes, equipment or in fact anything that may help to encourage juniors to have a go, please contact the editor and we can see if there are any takers.

It could be the start of a great hobby for a young person or even an eye opener into the possibilities of aviation as a career.

## Outdoor flying

In what's become a tradition, the first outdoor Friday evening was a bit of a soggy affair.



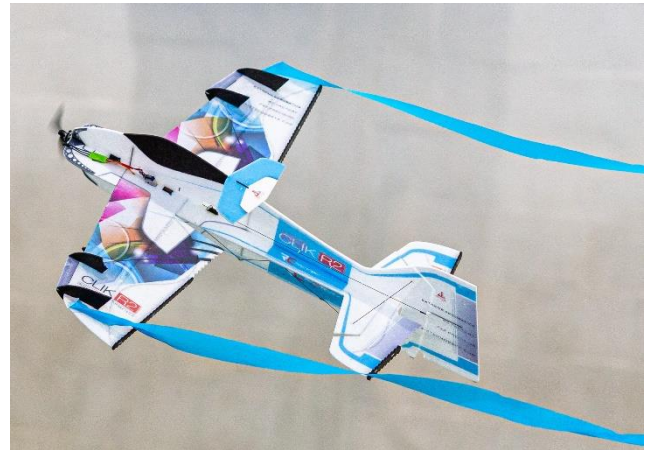
Lets hope for better things to come and well done to the hardy few who braved the elements! Treasurer Paul brought an umbrella wallah to keep him dry whilst flying. Good idea!

## Gripping Gripen



Malcolms Gripen flies past the moon. This is a model that was a real hangar Queen till brought back to life.

## Indoor Clik streaming



Alans Clik on a slow flyby at a recent Saturday RC session with 2" wide crepe streamers that look good, but can result in a deadstick landing if they tangle with the prop!

## Roys Pennyless



He's not pennyless, that's the models name. New member Roy was busy building and flying over the winter and this lightweight composite model was flying very well.

It's a carbon fibre frame covered in 2 micron mylar. New tech meets old design!!

## Answer to What's this then?

It's a Blenheim from Duxford that's had quite a chequered history. It's been rebuilt twice now.

## From the Archives.....

How to trim your model for a perfect glide from the 1958 Keil Kraft handbook

