

Impington Village College Model Aeroplane Club

Based near Cambridge we fly Free Flight, Radio Control and Control Line aircraft



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Website ivcmac.bmfa.uk

edited by Alan Paul
alanpaul@outlook.com

Supermarine Walrus



This is another free flight creation by Paul Burling who is pushing the boundaries with different propulsion systems. He writes -

By the end of its first indoor session, the Walrus flew three sorties 1.5 circuits without any issues, landing on her wheels sweetly and slow. The rudder was set to take advantage of the size of the sports hall without hitting the Walls/Nets etc.

The climb out is still too fast, so I will need additional adjustment for the sports hall which can easily be sorted.

The Walrus has now flown outside flying six circuits at Babraham Cricket Ground (very wet grass). This area is protected by high trees and is the only place I use to check my indoor aircraft.

Made out of B&Q 3mm Dial foam, it has a wing span of 490mm, weighs 40g and has a brushed pusher motor 7 x 20mm with a 65mm prop and a 1s 250mAh Lipo.

Video of the first test flights [here](#)

Flying site at Waterbeach

We have been speaking to the developers at Waterbeach Airfield and they have given us permission to fly on a large field there this summer. It is only suitable for hand launching and if you want to know more, please contact Alan Paul.

Important flying dates!!

- Last Indoor meeting – Sat 6th April
- First outdoor meeting – Fri 12th April
- RTP in sports hall – Sat 13th April

The round the pole event will see 3 circles in the sports hall and everyone is welcome to come and spectate. No club flying that day.

ELRS wireless Buddy Box

Membership secretary John Clarke is now the owner of a Radiomaster Boxer transmitter which uses the new ExpressLRS protocol and writes -

Instructing using Alan's old Taranis as a buddy box was great fun. Andrew, being a model student, had taken the many teething problems of trying to do something a bit different with good humour, however the cable connecting the two transmitters was a bit of a nuisance.



RC Video Reviews showed how to solder an ExpressLRS receiver into a transmitter to create a wireless buddy link, and I decided to do this with my old Horus X10S transmitter. The £10 receiver is a tiny 10mm square and can be seen in the bottom right corner of the photo. This now pairs up wirelessly with my new Boxer radio.

Andrew and John are having fun trying to fly a Klik together indoors. It is a challenge, but the buddy box system works very well.

Is it a drone or a Quad?

The 2 terms have become somewhat interchangeable, but in reality there is a big difference.....



This is a drone. Typically the left stick for the throttle is spring centred in the middle. You push forward for up and when you let go the stick returns to the centre position and the drone stays where it is – usually with a combination of GPS and camera positioning. A drone requires less piloting skill and is essentially a flying platform for a camera.



This is a quad. Its throttle works like a standard RC plane and you push forward for more power and pull back to reduce power. A quad flies faster and is aerobatic. If you take your hands off the sticks for more than a second or 2 it generally crashes, unlike the drone which just stays put till its battery gets too low when it lands itself.

That's a big winged "drone"



This the "Watchkeeper" RAF surveillance system. It uses a Wankel engine and can stay up for 14 hours cruising at 77 knots

The Spruce Moose



John Poleys 2mm Vector foam indoor RC biplane certainly has a moose like nose hence the name. It flew well and with the motor away from the nose is pretty crash resistant. It spans 450mm and weighs under 90g. There have been a lot of great new foam models recently!!

Foam scale SE5a



Bob Piggott pictured with his foam SE5a. Having seen Clives version, Bob had a go at one himself and it was getting trimmed out nicely at a recent Saturday indoor session.

This is from an Aeromodeller plan for EPS foam which makes a really nice scale model.

It is based on an ex WW1 plane that was used for aerial skywriting in the heyday of aviation just after the war.

Tims turbine

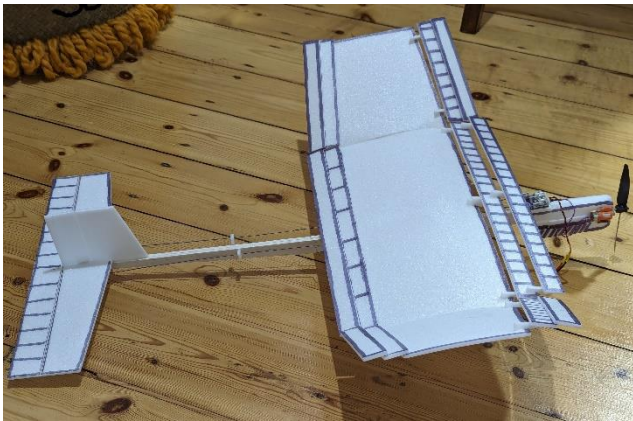


Progress continues with Tim Coles turbine which is now securely installed in the Boomerang which he bought from club member Trevors collection of hangar queens.

Tim is secretary of the Gas Turbine Builders Association, but this will be his first flying model. It's a Wren turbine.

We are hoping to see this having taxi trials at Impington on a Friday evening this summer which should be quite a sight (and sound).

Slow flying mods



Your editors indoor RC scaled up Gyminnie Cricket slow flyer. It flew pretty slowly but now has added double full span slats and flaps.

I was congratulating myself on its slow flying capabilities but then had a mid air which chopped one of the slats off. It flew just the same with one slat removed!! Aerodynamics at model size is not always the same as the full size.

Drone photography

Whilst Quads are fun to fly, in general the best aerial photos are from drones. Bryan Gostlow spotted this photo of Badbury Rings iron age hill fort in Dorset which is stitched together from multiple photos.



On a more local note, Tony Neal asked Malcolm and Alan to video the set aside nature reserve behind his house pictured below with us standing in the middle.



This was on a rather dull day so we will revisit this in the summer. The drone used was a DJI mini 2 that was bought in 2016. You can pick up an equivalent model now for under £300.

The video [here](#) was filmed using the automated mode where the aircraft latches onto us standing in the middle and orbits automatically at a preset distance. Very impressive

From the Archives.....

Chris Hinson kindly lent me a couple of Rays books. Expect some extracts in future editions.

