

NEWSLETTER

February 2005 Editor: Bob Young

BMFA MEMBERSHIP

All those members who have renewed their membership through WLMAC should by now have received their policy document and BMFA membership card through the post. Anyone who hasn't yet received them should contact membership secretary Peter Emanuel or Treasurer Peter Nielsen. We will be writing separately to those members who have arranged BMFA other than through WLMAC and have not yet shown their card to a committee member.

COMMITTEE JOBS FOR 2004

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Honorary President:	5
Chairman:	Bob Young
Secretary:	Leon Taylor
Field manager:	Des Wheatley
Treasurer:	Peter Nielsen
Newsletter Editor:	Bob Young
Scale Day organiser:	Peter Emanuel
Membership Secretary:	Peter Emanuel
Welfare Officer	Roy Lanning
Entertainment Manager:	Roy Lanning
Bring and Buy Organiser:	John Fowles



SEQUOIA IS BACK!

ROGER MOFFATT of Sequoia Systems is back on line. After a two year sabbatical, Roger is back producing those superb CNC cut biplane kits - the Goldfinch and Greenfinch. The larger model, shown here - the Bullfinch 2 prototype - is still under development, but is 68" span, can take engines 10 to 30cc and up, or electric, will have around 800 machined parts in the kit, made mostly from birch ply with some balsa, with a target weight of about 5-6kg. Features, amongst many other things, removable plug-in tail, all control surfaces scale hinged and removable, adjustable incidence top wing to set the stall as either very gentle, or very ungentle as required, built-up undercarriage with springing adjustable for motor weight ... and so on and on.

The kit isn't ready yet, so watch this space. In the mean time if you need to contact Roger, ring 01784 482 829, or email: sequoia@seqsys.co.uk

'A' TEST RESULT FOR DAVID WHITELEY



A very determined David Whiteley who braved the wheather and passed his 'A' Test just before the dark clouds fell upon the field is shown above with Club Examiner Peter Emanuel.

Huge congratulations to David, who spent most of the day relentlessly practising the schedule.

Our **next club meeting** is at the **Battle** of **Britain Club on Thursday, February** 10^{th.} Roger Moffatt will give a talk on the progress he has achieved with the Bullfinch 2 prototype. He will also exhibit the models shown in the article to the left. Roger, a long term WLMAC member, has had a break from film work recently which has allowed him to focus on his Aero Model developments.

This talk promises to be extremely interesting to the model builder, as the accuracy of the components produced by the CNC machining is amazing.

Explains... The Pitfalls of EFATO

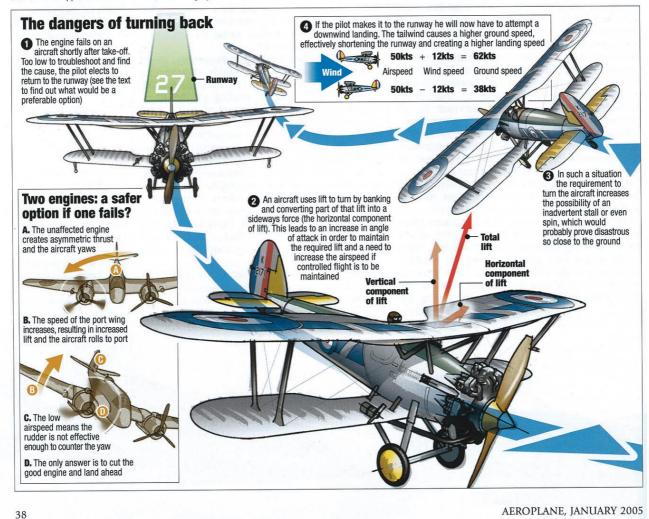
ERO ENGINES ARE VERY reliable. They should be, for not only does the design need to be thoroughly typetested, but all components must have known origins and histories; this applies also to replacement parts. The is the most likely time at which an ruling covers all engines on aircraft that qualify for Certificates of Airworthiness, and to all military machines. There are certain exemptions for aircraft that operate on permits to fly, such as homebuilts.

Despite all precautions, anything mechanical can fail. Also, sudden silence can happen for other reasons,

such as fuel starvation or contaminated fuel. Therefore all pilots must be trained to cope when the shock occurs, for then there is the minimum of time available to make a decision and take rapid action. Also, it engine will stop, as on take-off it is running at full power for the first and often the only time in a flight.

Until a few years ago, the ruling was rigid: as soon as power fails, put the nose down quickly in order to maintain airspeed and land as nearly ahead as possible, aiming to change heading by not more than about 30°,

Why attitude is crucial after engine failure Every aircraft has a **best** glide speed, giving Best glide maximum distance covered for minimum height lost. It is attained by pitching the (minimum aircraft up or down to find total drag) the optimum attitude and is determined by plotting the curves for two types of drag, one which increases with speed and one which Induced drag Parasite drag decreases (see right). Caused by the shape of the aircraft interfering with A byproduct of Where the curves cross is lift, decrease the minimum total drag and with speed airflow, increases with speed indicates the best glide speed Speed .



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Leon Taylor, our club chief examiner, who subscribes to Aeroplane Magazine, thought the above article would be of interest to our members particularly as we do from time to time have models visit the trees around our field because of EFATO. Clearly this is a well recognised problem in the full size world and hopefully the above explanation of the underlying considerations will help members in the future.