

BMFA Scale Technical Committee Newsletter - March 2013



Editorial
Andy Sephton



Welcome to the first BMFA Scale Newsletter of 2013 and also to a new flying season. This edition includes a belated report from a Scale Indoor event at Manchester last year, the programme of events planned so far for this year (see end of Newsletter), a review of rule changes in the new BMFA Scale rulebook, and an introduction to the Scale Technical Committee (STC) members.

The latter was prompted by one or two hints received that the STC may not have the Scale modellers interests at heart, so rather than preach I've asked the Committee members to introduce themselves via these pages. It should quickly become clear that the STC is made up of extremely dedicated and experienced Scale modellers who would not dream of putting the future of our hobby in jeopardy. Whilst some decisions made by the STC may not agree with your own agenda, they are made with the best interests of the general Scale modelling public in mind. Notwithstanding, if you still disagree with what we're doing, then you could always put yourself up to be voted in as a Committee member at the next BMFA AGM.....



Internet Forums: I've been looking at several modelling internet forums in the past month:

RCSB - <http://www.rcscalebuilder.com/Default.asp>

RC Aircraft Online - <http://www.rcaircraftonline.co.uk/forum.php> - note recently introduced Free Flight Pages!

Model Chat - <http://www.modelchat.org.uk/>

Hip Pocket Aeronautics Builders' Forum - http://www.hippocketaeronautics.com/hpa_forum/index.php

Small Flying Arts - <http://www.smallflyingartsforum.com/YaBB.pl>

All look pretty good, but be warned, the RCSB charges \$20 per annum after your first 5 posts.

Silicone Rubber Lube: There's been a scare on the spillage of silicone rubber lubricant at Indoor sites; the following is distilled from advice by Mike Woodhouse who has been using silicone lubricant on his rubber motors for 20 years:

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First thing don't try and wipe the spill away. Sprinkle with some absorbent material like talc. I use colloidal silica that I use to help tie knot in silicone lubed rubber (I sell the stuff). Once absorbed brush away then wipe with a de-greaser. You can get de-greasers at places like Halfords, the same stuff that's used to de-grease cycle chains etc. Remember that most motor oils now contain silicone as part of the blend. There is no problem.

Wing Area: I'd like to clear up a misconception in the measurement of wing area for scale models. For our purpose, the area we take into account to prove our model's area and wing loading are within limits as defined by the BMFA General Rules is defined below - Note that the projected area of all flying surfaces is taken into account including the area of the surface contained in the fuselage and nacelles.

.....Model aircraft, as defined by the FAI, shall be limited to the following dimensions and weights.

The total surface of the wings and the horizontal stabilising surface(s) must be less than or equal to 150 sq. decimetres (16.14 sq.ft.). The surface taken will be the total of the orthogonal projections of all flying surfaces onto the horizontal plane in the position of horizontal flight.

In the case of wings or empennages attached to the body of the machine, the surface taken will include the complete centre of the fuselage(s), the normal contour lines of the surfaces being supposed to be extended until they meet the plane of symmetry of the machine in plan view.....



Steve Fish
and Typhoon

New Indoor Event: News has just come in of a possible Indoor event at RAF Shawbury in October this year. The organisers would like an idea of possible attendees, so please let me know if you're interested. Events should include both free flight and RC scale.

Scale Flyer: I'm in the process of making an advertising flyer for BMFA Scale and am in need of some quotes supporting Scale models, why we do it and what we get out of it. Good 'one-liners' are required, such as: "How else could I own and fly my own DH Hornet!". Please let me have your ideas soonest.

Events: Finally, two reminders: the **RC and FF Scale Indoor at Walsall on 7th April** and the **Scale Indoor Nats at Nottingham on 21st April** - closing date for entries is 14th April.

Stop Press 1: The STC are considering organising a one day static judging and documentation seminar on 25th May in the South Yorks area. Interested? Then please contact me and let me know.

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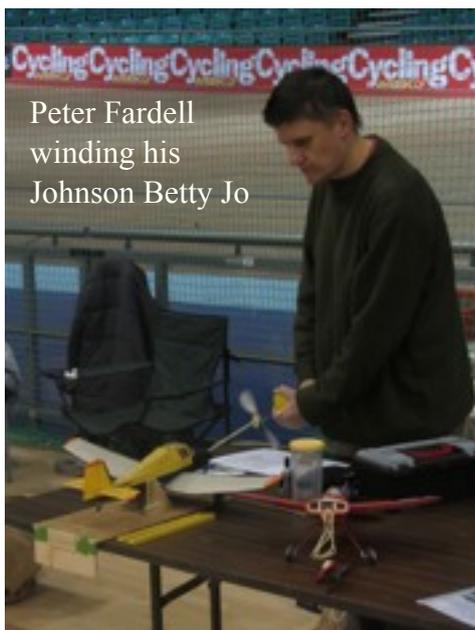
Stop Press 2: First RC event of season at Osbournby cancelled due to inclement weather.....is this the pattern for 2013.....I hope not! (See **Note 3** on page 11)

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Tel: 07872 625279

Indoor FF Scale - Manchester Velodrome - 24th November 2012

Andy Sephton



Peter Fardell
winding his
Johnson Betty Jo

For the second year running, the Indoor Free Flight Technical Committee invited us to join them for a joint Indoor meeting at the Manchester Velodrome. Again, the meeting was a success as not only did we have enough volunteers to run the event, but also enough attendees to cover costs. With over twenty competitors split between Free Flight and Scale, with some entering both disciplines, it turned out to be a full day with lots of good model flying for all.

Three Scale competitions were run over the 9 hours available to us: Peanut, Pistachio and Open Scale Flying only. It was nice to see some new models and also some old ones performing well. Most impressive was the Herst Monoplane of Tim Horne in Open Scale which eventually took a deserved first place with some superb flights. Tim had spent around four years trying to get the model trimmed and finally succeeded - the effort was well worth it! He also scored well with his second model, a Misty racer, achieving the second

highest score, but only the 'best' score of multiple entries counted on the day. Lawrence Marks Vagabond, always a sure flyer, managed second place with Reg Boor's nice flying Bernard GR121 making third. Lawrence had a lot of trouble with his electric Robin with the model ground looping as the motor wound up. It was partially cured after the competition by holding onto the machine until the motor was running at speed before releasing.

Peanut was again dominated by Mike Hadland's Jungmann biplane. He's a hard nut to crack with excellent building and trimming skills behind him, but it's not an impossibility. Take a close look at Mike's model, and you'll see that it's a nice compromise between the need for duration as well as scale points. If you want to beat him, look at the rules and pick a prototype that scores more in static, then make it fly for over 45 seconds. It's not easy,



Laurence Marks
releasing his
Vagabond

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but it is achievable and I'm sure Mike will rise to the challenge of any serious opposition! Nick Peppiatt's Blackburn Bluebird was second with Kev Wallace's Bower's Fly Baby bringing up the rear in third.

Pistachio is really an experts game, but again it was well supported with 6 entrants. Chris Chapman's Me109 flew well into a deserved first place with Nick Peppiatt's well campaigned Lipisch Storch coming second. Reg Boor managed another third place with his Bristol Brownie.

UK Team cycling training was going on during the day and several of the team members took time out to visit and ask questions about the model flying. This became a two way street and an interesting technology exchange ensued - the bikes they use are made from composite materials, cost around £10K and from observation at least, reach stunning speeds.

Other visitors for our event included the President of the All Pakistan Aero Modelling and Ultralight Association Mr Habib M. Habib. He stayed with us for most of the day enjoying both the model flying and conversations with most of us there.



Mr Habib M. Habib
with Ken Sheppard

Finally, and in no particular order, a big thank you is due to: Scale Judges (Gordon Warburton, John Minchel, Derek Knight and Ken Sheppard), the Free Flight Technical Committee for running the event (Mike Collinge and Dave Whitehouse), and the scorer (Gordon Warburton).

A full list of results is at the end of this Newsletter and repeated on the BMFA Scale website - www.scalebmfa.co.uk

CONTROL LINE NEWS Graham Kennedy



Bryan Passey's
C/L Halifax

CL Scale Modelling is alive north of the border. Bryan Passey is an accomplished scale builder who you can always depend upon to produce a subject, which initiates conversation. His latest creation is a HP Halifax spanning 53" and built from the Aeromodeller plan of 1966 by M Bodey. It is of traditional ply/balsa construction and spray finished with thinned Humbrol enamels. All markings are from home-made masks or computer generated waterslide transfers. It is powered by 4 x AM 1.5cc diesels fueled from individual tanks and is designed

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for simple control line with no electronics (retracts etc) and will be flown on 60ft lines. It is modelled on Halifax PN230 "Vicky, the Vicious Virgin" of 408 "Goose" Squadron, RCAF



BMFA SCALE RULE CHANGES

The new BMFA Scale 2013 Rule Book has been on-the-streets since January. It's free to download from the BMFA website, or copies can be purchased directly from the BMFA offices. The Rule Book has been completely revamped and major thanks should go to Chris Allen for achieving the Herculean task. Inevitably, one or two errors creep in, see below for those that have been identified so far. Also, see below for a summary of the major changes to the document.

Corrections to the 2013 Rule Book

Page 5 - Para 6.6.1.10 Final Scoring/Competition Results - the last sentence is incorrect. See individual contest rules for clarification. This sentence will be amended in due course.

Page 10 - Para 6.1.2.5 Static Judging Distances - The heading for the third column should be - ITEMS 4 to 6 inc.

Page 34 - Para 6.3.1.9(b) - R/C Flight Schedule - Optional Manoeuvres - First sub-para - add the following: Competitors may select up to two variations each of manoeuvres that have variations, i.e. Roll and Cuban Eight.

Page 46 – Para 6.3.4.4 Optional Manoeuvres, A – Delete the word “Outside” before LOOP.

Summary of Rule Changes in the 2013 Rule Book

- The classes have been placed in a logical order.
- A new class has been included – Scale R/C Indoor.
- The FF Scale Rubber Duration class has been deleted.
- The descriptions of the manoeuvres in C/L and R/C and the phases of flight in Free Flight have been moved from the Judges Guides and placed at the end of the relevant flight rules.
- Duplication has been minimised.
- The section numbering has been revised and all paragraphs have been renumbered.
- The sample forms, score sheets and Judges Guides have been removed to the BMFA Scale website.
- All the ‘Rules’ have been removed from the Judges Guides and any clarification of the rules that was previously part of the Judges Guides has now been incorporated into the rules.

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- A revised and updated version of the R/C Flight Score Sheet is available on the website for downloading.
- A full revision of the Judges Guides will be available on the website shortly.
- The definition of a scale model has been expanded to include all man-carrying craft.
- The signed declaration required for free flight models has been formalised and brought into line with that required for RC and CL. The RC and CL declaration has been revised.
- The RC score sheet has been revised to allow for variations on the roll and Cuban Eight.
- Marking is now in increments of 0.1 of a mark
- Static Judging distances for FF classes have been 'rationalised'.
- Final score in open classes is static score plus the average of the two best flight scores from all marking judges.
- To prevent the requirement to cut propeller drive shafts, for rubber powered models only, the nose block/propeller assembly may be changed after static judging for a flight item. The flying nose block must be similar to the static nose block and must be presented for static judging with the model.
- R/C flight schedule – Optional Manoeuvres: The Roll now includes variations and the Wingover has been redefined and is no longer restricted to non-aerobatic models.
- The hand-launching of free flight models has been formally approved.
- Electronic motion stabilising devices are approved for Scale RC Indoor only; a penalty to the flight score will be applied.
- Advice has been formalised on reduction of marks for reduced static documentation.
- The definition of an official flight for free flight models has been formalised.
- The number of competition flights required for free flight competition has been un-mandated.
- The UC raising and lowering bonus definition has been changed for free flight.
- The maximum allowable weight for indoor free flight models has been changed to 200 gm.
- The stab outline in Peanut and Pistachio has been changed to 'Empennage' so that the shape and size of the fin/rudder is now included.
- Separate control surfaces in Peanut now have 0.5 marks each.

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- The extra complexity bonus in Pistachio has been deleted.

- Kit scale is not now open to nationals winners of Kit Scale, Open Rubber and/or CO2/Electric in past five years.

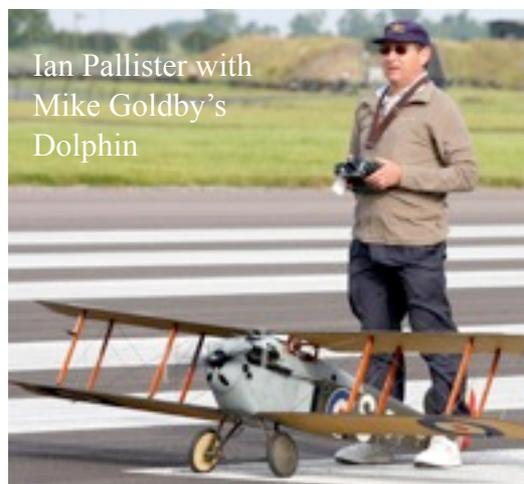
Scale Technical Committee

Andy Sephton

As said in the introduction, we're introducing the six members of the STC starting in this issue with the Chairman, Secretary and Treasurer, we'll look at the Competition Secretary, CIAM Rep Rules and Safety Officer and the PRO next time:

Chairman, Ian Pallister

After 34 years in the RAF, the first 7 as a pilot and the remainder as an aero systems engineer officer, I 'retired' in 2004 to work as a training manager in the Civil Service at RAFC Cranwell. I have been a member of the RAFMAA since 1978, serving 5 years as Competition Secretary and 11 years as Chairman during which I flew all competition disciplines at club level except C/L, the attraction of which has always eluded me. Having enjoyed success at several RAFMAA Indoor Champs under the tutelage of Doug McHard I was persuaded to enter my first Scale Indoor Nats by Doug Shepherd in 1987 and managed to win the CO₂ event in '88 and Peanut in '92.



Ian Pallister with
Mike Goldby's
Dolphin

Retirement from the RAF to a job nearer home afforded me a little more time and, having resisted several previous approaches, I ran out of excuses to be co-opted onto the STC to organise the Indoor Nats, which I did for 5 years. I started flight judging R/C Scale at Elvington in 1980 and still enjoy doing so. However, my ultimate goal was always to fly F4C and I have enjoyed competing in Flying Only events in recent years. Although still a member of the RAFMAA I also joined the Osbournby Club last year to inspire me to get out flying more often. All I need now is the time to build my own F4C model!

Secretary, Steve Kessel

I have been building and flying model aircraft from the age of six, encouraged by my father who built free flight and control line models in his youth. In those early years I built many gliders and rubber powered models and took up control line in my teens. I have a keen interest in scale models but appreciate most types of model flying, especially things that are a little unusual. In my working life I am a mechanical engineer but nowadays I run a craft



Steve Kessel

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shop with my wife. For the last 23 years I have been a member of the Ramsey MAC and was chairman of that club for three years. Since moving to Norfolk I have also been a member of the Kelling MFC. From the mid 90's I have served as a judge at scale competitions including the Nationals and have been a member of the Scale Technical Committee for the last three years.



Steve's latest, a DH-88 Comet

Treasurer, Richard Scarbrough



Richard Scarbrough with P-51

I began modelling in 1977, with IC model boats with my father. We began aero modelling in 1979 and joined the SMAE/BMFA through my local flying club, the GDMAS at Barkston Heath. We started with a 3 channel Jolly Rodger trainer for 6 months before progressing to 4 channels with a Cadet 62 trainer. We moved on to low wing trainers, Fairey Tipsey Junior, Gangster 52, 63, etc, etc. I attained my B certificate in 1983. Initially my father went down the scale route whereas I continued with Aerobatics, using Curare's, Dalotel's etc, etc. After my father stopped model

flying, to return to full size gliding, my interests changed and I started flying scale models as well as Aerobatics.

In 1989, I was approached by a company building and flying Target Drones/UAV's and for the next 11 years was very fortunate to travel the world flying both manually and auto piloted planes. This was a dream come true, and I gained many experiences in flying and construction techniques. After 11 years, I needed a change and the excitement of travel waned. I also missed my local model flying and needed to change my occupation. Since 1999, I have worked as a Sales Director in the Oil and Paint Industry working for an independent manufacturer.

In 2002, I joined the LMA, and started flying at model shows. As well as being a BMFA examiner, I am also an LMA flight inspector for over 20 kg models and LMA Proficiency Examiner. Currently I fly Jet turbine models along with WW2 Warbirds and regularly compete in scale competitions/ flying shows throughout the UK and fly at the British Nationals every year, both on the scale line and showline.

I am currently serving my second term on the Scale Technical Committee. Within this role I am trying to develop the scale categories further to widen and enhance the areas of competition to try to encourage more modellers to take part in our competitions in the U.K. Also it is of paramount importance to attract new blood into our sport as we all continue to grow older.



Richard Scarbrough's latest, a P-47

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Communication and the Scale Modeller

Mike Chilson

The following text was sent to me by Richard Crapp with permission to publish from the originator, Mike Chilson. Mike runs the RC Scale Builder Forum in the USA, which is highly recommended for serious RC scale nuts: <http://www.rcscalebuilder.com/>

Greetings fellow modelers,

Here is a question to ask yourself. What are your goals in the hobby this year? Attend more events? Build another model? Buy a new radio? Those are all great goals but how about a goal to help our hobby? You would be surprised at the impact each of us can have in our local modeling communities by doing the simplest things. And when our local modeling communities are healthy, guess what, our hobby as a whole is better off. So you are asking yourself "Ok Mike, so what can I do?? well quite a lot actually... I call it the "Three C's". Pick any ONE of them and you being a pro-active member of our hobby.

First, COMMUNICATE, if your local club or organization is sponsoring an event at a shopping mall or some other type of demonstration, grab one of your pride and joys and attend. If you don't have a model you want to show go and help answer questions. Communicating with the public is the KEY to bringing new members in. Also, if you have a scout troop in your area be sure and seek out the scout master and I am sure he would be interested in you coming and speaking to the kids about model aviation. Setup a day when a local TV station can come out and film you guys flying. There are hundreds of ideas.

Next, you can COLLABERATE. Got someone in your local club interested in R/C Scale Building? Become their mentor! Even though you may feel you are not qualified to teach someone else you are. Get together with them once a week, maybe one evening and help them accomplish their project. Even if you spend 90% socializing and 10% working on a model you have accomplished your goal and hopefully made a new building buddy. Want to take it a step farther? Start a building seminar offering tips and tricks to help folks get started and advertise it at your local hobby shop.. Heck, they may help! Feel like you are a better flyer than a builder? Offer to become the trainer at your club and teach new members to fly!

Last (but certainly not least) is CONTRIBUTE. This means many things, your time your effort and of course funds. Be sure and show up at local club work days and meetings and give your input. Enjoy writing? Write an article for one of the hobby magazines. Heck, post your build here on RCSB! The possibilities are endless. Also, be sure to try to support organizations that are you think are doing a good job promoting our hobby by joining and becoming active members.

There are many, many folks on this site that do one, two, and all three of these things on a regular basis. THIS is one of the main reasons this is the finest community site on the web in my humble opinion. So take this year and see what YOU can do to help drive our hobby forward. Oh, and the best part of doing any of these things, you walk away with the satisfaction that YOU have helped R/C Scale.

Until next month... Mike

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Scale Indoor Free Flight – Manchester Velodrome 24th November 2012

Open Rubber/Electric/CO2						
Name	Model	Flt 1	Flt 2	Flt 3	Flt 4	Best Flight
Tim Horne	Hergt Monoplane	1500	1762	1593	1464	1762.0
Tim Horne	Misty	1495	1665.5	1748	1684	1748.0
Laurence Marks	Vagabond	0	1619	0	1740.5	1740.5
Reg Boor	Bernard GR121	1515.5	1716.5	1392.5	1663.5	1716.5
Mike Hadland	Bucker Jungman	1600	1599.5	1642	1566	1600.0
Derek Knight	Fairchild Argus	0	1403	0	1547	1547.0
Kevin Wallace	Piper Family Cruiser	1369	1352	0	1525.5	1525.5
Peter Fardell	Johnson Betty Jo	1310	1466	1313	1296	1466.0
Ken Bates	Comper Swift	1219	1170.5	1457	1305	1457.0
Peter Fardell	Auster Agricola	1017	970	1102	1306	1306.0
Laurence Marks	ABC Robin	0	0	0	0	
Dave Crompton	Farman F450	0	0	0	0	

Peanut Scale													
Name	Model	Flt 1	Flt 2	Flt 3	Flt 4	Flt 5	Flt 6	Best 2	Flt Pos	Static	Stat Pos	Flt + Stat	Place
Mike Hadland	Bucker Jungman	60	65	0	0	0	0	125	1	112	1	2	1
Nick Peppiatt	Blackburn Bluebird	32	41	45	0	0	0	86	3	107	3	6	2
Kevin Wallace	Bowers Flybaby	38	39	35	27	0	0	77	5	108	2	7	3
Chris Chapman	Hawker Fury	38	6	45	40	0	0	85	4	86	6	10	4
Colin Taylor	Gipsy Moth	26	29	0	0	0	0	55	7	88	4	11	5
Dave Crompton	H P Sayers	38	46	48	45	49	52	101	2	49	9	11	6
Bryan Stichbury	Piper Cub	29	38	0	0	0	0	67	6	70	7	13	7
Reg Boor	Miles M18	13	14	0	0	0	0	27	9	87	5	14	8
James Day	Lacey M10	18	13	0	0	0	0	31	8	66	8	16	9

Pistachio Scale													
Name	Model	Flt 1	Flt 2	Flt 3	Flt 4	Flt 5	Flt 6	Best 2	Flt Pos	Static	Stat Pos	Flt + Stat	Place
Chris Chapman	ME109	16	27	30	0	0	0	57	3	55	1	4	1
Nick Peppiatt	Lippisen Storch	50	65	0	0	0	0	115	1	43	5	6	2
Reg Boor	Bristol Brownie	26	27	24	0	0	0	53	5	53	2	7	3
Tim Horne	Screamin Meany	24	31	0	0	0	0	55	4	44	4	8	4
Dave Whitehouse	DH37	18	26	21	53	33	32	86	2	34	6	8	5
Bryan Stichbury	Andreason BA4 B	15	23	29	0	0	0	52		47	3	9	6

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BMFA Scale Programme for 2013

Note 1 - Judges are still required for some events, if you are available and willing please contact the relevant CD.

Note 2 - Multiple entries will only be allowed in Scale Indoor RC and non-Nationals Scale Indoor Free Flight events.

Note 3 - If you did not receive notification of Osbournby's cancellation by email and would like to be notified in future of any cancellation or changes to RC events, please send an email to dave.knottd@btinternet.com to let him know.

VENUE	Team Trials Qualifier	CD/Contact
24 th March Osbournby F/O & S/O	No	Dave Knott dave.knottd@btinternet.com 01903 501462
7 th April Walsall Sports Centre Scale Indoor RC and FF	N/A	Andy Sephton Andrewjsephton@gmail.com 07872 625279
14 th April Pontefract F/O	No	Dave Knott dave.knottd@btinternet.com 01903 501462
21 st April Nottingham University Scale Indoor Nationals	N/A	Andy Sephton Andrewjsephton@gmail.com 07872 625279
5 th May Druids RFC, Rolleston F/O	Yes	Dave Knott dave.knottd@btinternet.com 01903 501462
12 th May Warrix (Troon) F/O	No	Graham Kennedy grhmkennedy@gmail.com 07879 687494
19 th May Sussex RFC F/O	No	Dave Knott dave.knottd@btinternet.com 01903 501462
26 th May Church Fenton TBC F/O & RC Scale	Yes	Dave Knott dave.knottd@btinternet.com 01903 501462
25 th May FF Nats, Barkston Heath Aeromodeller and MA Designs flying only	N/A	Contact Bill Dennis 01623 882620
26 th May FF Nats Barkston Heath Open FF Scale	N/A	Contact Bill Dennis 01623 882620

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9 th June Barkston Heath TBC RC Scale & F/O	Yes	Dave Knott dave.knottd@btintenet.com 01903 501462
23 rd June Merryfield F/O	No	Dave Knott dave.knottd@btintenet.com 01903 501462
23 rd June Aberdeen F/O	No	Graham Kennedy grhmkenedy@gmail.com 07879 687494
7 th July Warboys) RC Scale Ripmax Trophy & F/O	Yes	Dave Knott dave.knottd@btintenet.com 01903 501462
7 th July, Dreaming Spires, Oxford FF Scale	N/A	Contact Charlie Newman 01865 426129
16 - 22 nd July, FF - one design postal contest		See: http://www.hippocketaeronautics.com/hpa_forum/index.php/topic,12955.0/topicseen.html
20 - 21 st July, Old Warden Scale Weekend	N/A	Model Air http://www.modelair.info/
21 st July Osbournby F/O		Dave Knott dave.knottd@btintenet.com 01903 501462
24 th -26 th Aug Nationals Barkston Heath F4C & F/O & S/O	Yes	Graham Kennedy grhmkenedy@gmail.com 07879 687494
24 th - 26 th August, Nationals, Barkston Heath FF Scale	N/A	Contact Bill Dennis 01623 882620
1 st September, Flying Aces, Peterborough FF Scale	N/A	Contact PMFC: http://www.peterboroughmfc.org/
8 th September Merryfield F/O	No	Dave Knott dave.knottd@btintenet.com 01903 501462
21 st /22 nd September Team Trials TBC F4C, F4H		Dave Knott dave.knottd@btintenet.com 01903 501462
TBD Sep/Oct, Barkston Heath Selby Trophy	N/A	Contact Bill Dennis (01623 882620)