

Scale Free Flight Brief 80 June 2024

Just by coincidence June is also Scale Free Flight Brief's 80th, edition that is, not an invasion anniversary.

Paper Planes

I was contacted by Brian Lever with a new initiative, Paper Planes, scale and duration. My instant reaction was HMMM, I have enough trouble with balsa wood etc. Having read the document detailing the idea with the rules (nothing complicated) I definitely think it has legs. There is time to try out and experiment before the proposed first meetings. Good luck "origamiing" an HP 0400.

SENSATIONAL NEW COMPETITION FOR PAPER RUBBER POWERED INDOOR FREE FLIGHT MODEL AIRCRAFT

DURATION AND SCALE CLASSES

BY

PETERBOROUGH MODEL FLYING CLUB

WHY PAPER?

A recent article in the May 2024 Aeromodeller Magazine was entitled "Paper Planes- FLYPAPER by Jim Leuken". Jim's father John Leuken had a paper plane design called Fly Paper published in American Modeller magazine in 1973. The AM article came with a 70% size plan of FLYPAPER and this immediately piqued my interest. The article went on to describe how in the winter of 1966/67 the Scientific American held an event that has already taken to its proper place in aeronautical history, The First International Paper Plane Competition. Several of the outstanding designs were published by Simon and Schuster in "The Great International Paper Airplane Book".

WHY NOT?

With nothing on the horizon for a paper plane competition in the UK and with Peterborough Model Flying Club having a considerable reputation for inventing new competitions over many years the initial germ of an idea grew to the holding of a National Rubber Powered Paper Plane Competition. Coupled to the fact PMFC have one of the finest indoor Sports Hall in the UK with bookings in place for October, November and December 2024 and also January, February and March 2025, we then had an idea plus the perfect place to hold a PRPPPN (Peterborough Rubber Powered Paper Plane Nationals).

WHAT NEXT?

With aeromodellers being such an inventive bunch we put our thinking caps on to develop a set of rules that will allow both Sport Duration and Sport Scale free flight indoor enthusiasts to be creative in developing paper planes to set the standards for years to come.

WHAT COMPETITION?

PETERBOROUGH RUBBER POWERED PAPER PLANE NATIONALS.

WHERE HELD?

BUSHFIELD SPORTS CENTRE, 10 BUSHFIELD, PE2 5RG close to the A1 turn off (North and South) for Peterborough.

WHAT DATE?

SUNDAY, 2ND MARCH 2025

WHAT COMPETITIONS?

Two classes: Rubber Powered Sport Duration
Rubber Powered Sport Scale

WHAT AWARDS?

£200 prize money divided between both classes.

Trophies for 1st, 2nd and 3rd places in both classes.

Concours Certificates for the 3 most beautiful models flown.

PRPPPN Certificates awarded to all entrants.

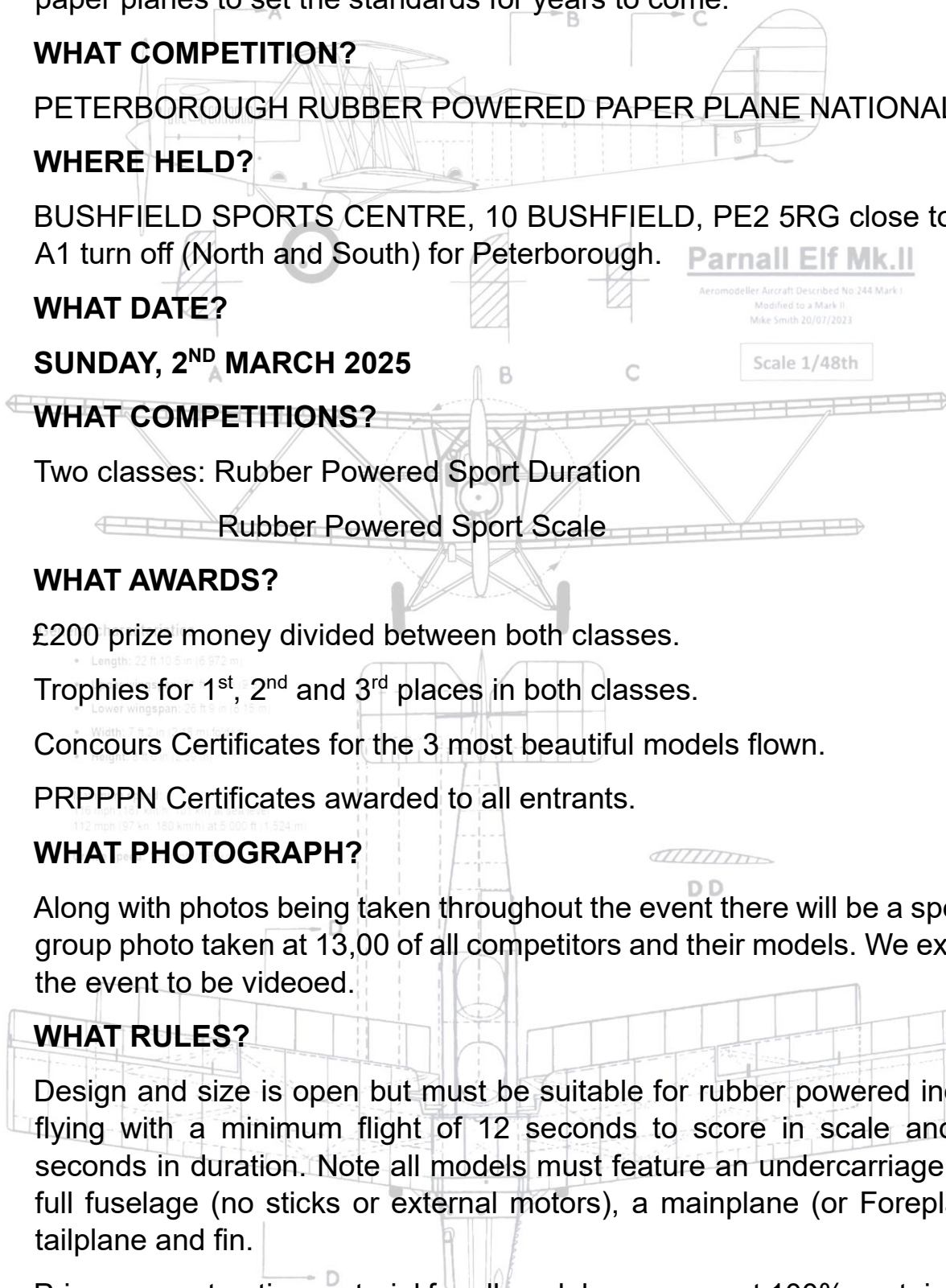
WHAT PHOTOGRAPH?

Along with photos being taken throughout the event there will be a special group photo taken at 13,00 of all competitors and their models. We expect the event to be videoed.

WHAT RULES?

Design and size is open but must be suitable for rubber powered indoor flying with a minimum flight of 12 seconds to score in scale and 20 seconds in duration. Note all models must feature an undercarriage and full fuselage (no sticks or external motors), a mainplane (or Foreplane) tailplane and fin.

Primary construction material for all models we suggest 100% sustainable or recycled paper of between 60-200 grm. Thus fuselage, formers, wings, tailplane, fin to be of 100% paper construction. Paper to be used for any areas requiring strengthening.



Wheels to be made of paper/card with U/C of paper or thin wire.

Wing and Tailplane spars may be a paper tube, drinking straw (paper or plastic), bamboo, or cocktail sticks.

Noseblock may be made of balsa when necessary and a commercial nose bush may be used.

Propeller may be a suitable commercial light weight wood/plastic or homebuilt using a balsa/ply, paper, yogurt pot, cocktail stick combination. Prop shafts may use thin wire and bead type bearings.

RUBBER POWERED SPORT DURATION COMPETITION

Five official hand launched flights timed by BMFA member and recorded on score sheet. One attempt per round for a flight of less than 5 seconds. Timing in seconds commences from release and ends on the model landing or ceasing to fly. The flight time in seconds from the best flight of five determines the competitors final placing.

RUBBER POWERED SPORT SCALE COMPETITION

Models to be accompanied by three view/photo to enable visual check prior to flight.

This is a flying only scale competition.

Five official flights, one attempt per round for a flight of less than 5secs.

Flights are scored for ROG (bonus of 10 points) or hand launch then climb, height, cruise, descent, landing and overall appearance in flight.

The highest score from the five flights determine the competitors final placing.

WHAT NOW? If you fancy taking part in a UK history making Paper Model Aircraft Competition why not put on your thinking cap, come up with a design (or make a paper version of an existing one) and pop along to the Bushfield Sports Centre October-December 2024 meetings for trimming flights prior to the PRPPN which will take place on Sunday 2nd March 2025. **How can you possibly resist the hottest new indoor event in town? To Register and have any questions answered please contact: Brian Lever, blever@btinternet.com or Tel: 01733 252416**

Or write to: - Brian Lever, Fairwinds, 3 The Park, Peakirk, Peterborough, PE6 7NG

THANK YOU AND GOOD LUCK WITH YOUR DESIGNS!!

Outdoor Scale Free Flight Nationals. 29th 30th June

We are needing more entries for the Scale Free Flight Nationals as posted below. We have an Open Rubber contest but only one entry in Power and one in Co2 / Electric so far.

A pre-entry is now on the STC website at

<https://scale.bmfa.org/2024-scale-free-flight-nationals-entry-form-now-live>

It promises to be a very good weekend with Scale centre stage on the RC and CL flight lines during the day and the Free Flight contests in the evenings.

Displays and Talks in the hangar. The Café will be open as well.

An "Old Warden" type of event that will be a regular annual event.

For camping permits please contact Buckminster direct.

I will be sending out a Nationals briefing to contestants and officials once the entry is closed, on Sunday 23rd June 2024 and we know how many entries have been received.



BMFA ***Festival of Scale 2024***

Saturday 29th and Sunday 30th June 2024
at the BMFA National Centre Buckminster

- Join us for a weekend full of everything scale aeromodelling including the Scale Free Flight Nationals!
- "A" Certificate required up to 7.5kg
- "B" Certificate required for over 7.5Kg (over 25kg with prior permission)
- Scale techniques workshops in the Goldsmith Hangar
- Themed flying slots throughout the weekend*
- Entry/flying fee: £10.00 per day
- <https://nationalcentre.bmfa.org/visitor-info/camping> for further details regarding on-site camping
- For further information on Festival of Scale contact: enquiriesbmfascale@yahoo.com

*Please note that jet turbine engines are not permitted.



General characteristics

- Length: 22 ft 10 in
- Upper wingspan: 18 ft 6 in
- Lower wingspan: 18 ft 6 in
- Width: 7 ft 2 in
- Height: 8 ft 6 in

Maximum speed: 116 mph (187 km/h)

112 mph (180 km/h)

Cruise speed: 103 mph

Competitors Declaration

It has been noted by the STC that there are certain ambiguities with the Version 3 of the Competitors Declaration that is posted on the STC website. This will be superseded by a version 4 very soon to clarify what information is required from the competitor. Kindly update your documentation.

Competitor's must complete the relevant section and sign this form to certify that their model conforms to the current class rules. It is the competitor's responsibility to provide a Declaration and must be in the models Documentation.

Name	BMFA No:	Class
Model	Scale	Cruise/ Max speed
Model weight: kgs/gms	Wing loading g/dm2:	Scale 1/48th
Indoor R/C and all Free Flight. Class RC1 (F4C), CL1, RCX1/3, FF1/2/3/4, FFX1/2/3/4/5/6. You must declare any third-party input to the design, build and finishing of the model and identify any parts of the model that have not been entirely designed and constructed by you. This includes items manufactured using a computer aided process, but excludes R/C equipment, engines, fuel system components and fasteners.		
Please answer all the questions		Y / N
Was this model researched, designed and built entirely by you?		
Was this model built using a commercial design or plan? State.		
Was this model built from a kit? State kit manufacturer's name.		
INDICATE IF ANY OF THE FOLLOWING ITEMS ARE DESIGNED, SUPPLIED OR MANUFACTURED BY A THIRD PARTY.		
Moulded or built-up fuselage		
Pre-formed or built-up wing panels		
Pre-formed or built-up tail surfaces		
Moulded canopy		
Moulded or spun engine cowlings		
Undercarriage assembly including tailwheel/skid		
Wheels / Tyres		
Guns, bombs or other fittings Spinner/s, dummy engine/s, Scale propeller/s Instrument panel or cockpit interior		
Print files, printed or pre-cut covering materials, markings, decals or masks		
Wire rigging or fittings		
List any additional third party items.		

Class RC2 (F4H) Indicate which option below is appropriate to your model and give comments and/or explanation of model build, third party manufacture, kit or plan and evidence of modifications you have made.	Tick
Competitor built - Was this model researched, designed and built entirely by you?	
Competitor built – Traditional construction from Kit or plan	
Third party built using traditional construction – competitor covered and paint finished	
Third party built from moulded components – competitor paint finished	
Third party built (ARTF kit) – competitor modified	
Third party built (unmodified ARTF kit)	
Third Party built – Model purchased ready to fly	
If you need more space, use the reverse of this form or another page and tick this box -----▶	

I certify that my model conforms to the BMFA Scale Class rules indicated above.

Signature **Date**

General characteristics

- Length: 22 ft 10.5 in (6.972 m)
- Upper wingspan: 31 ft 3.5 in (9.538 m)
- Lower wingspan: 26 ft 9 in (8.15 m)
- Width: 7 ft 2 in (2.18 m) folded
- Height: 8 ft 6 in (2.59 m)

Maximum speed:

116 mph (187 km/h, 101 kn) at sea level
 112 mph (97 kn, 180 km/h) at 5 000 ft (1 524 m)

Cruise speed: 103 mph (166 km/h, 90 kn)

Regards Mike.

