



2018 Rules for BHPFC Icarus cup competition At Sywell Northampton

14th to 22nd July 2018, hosted by Sywell Aerodrome

Appendix 3: 2018 Rules for the Jacobson Figure of Eight Prize

The prizes will be awarded for the aircraft that fly furthest around a figure of eight course with turning points 350 m apart.

The competition will be held annually at the BHPFC Icarus Cup.

The First prize is £1,000, Second prize £700 and third prize £300

1. Eligibility

The competition is international and is open to individuals or teams from any part of the world. It will be governed by the Sporting Code of the FAI and these Regulations and Conditions.

2. Conditions of Entry

- (a) The aircraft shall be a heavier than air machine and the use of lighter than air gases shall be prohibited.
- (b) The aircraft shall be propelled entirely by human power. No device for the storage or supply of energy may be used.
- (c) No drugs or stimulants, including oxygen, shall be permitted. In this respect each entrant flying as a crew member may be required to take such tests as approved by the WADA after any successful attempt at the competition
- (d) No part of the aircraft shall be jettisoned during any part of the flight, including take-off and landing.
- (e) The aircraft shall be controlled only by the airborne crew of the aircraft.

3. The Course

- (a) The Course (see diagram) shall be around two turning points which shall be 350 metres apart and will be clearly marked. The Course will include the take-off and landing runs and the 'completed flight' includes both the take-off and the landing.
- (b) A start line, A-B, will be set at right angles to the line joining the turning points with its centre at one of the turning points, and will be suitably marked. (It is anticipated that the turning radius of the aircraft will be around 100 m and the course has been designed with this in mind. Although there are no restrictions imposed on the turning radius of the aircraft.)
- (c) The fuselage of the aircraft shall pass outside each turning point during the flight.
- (d) The course may be flown in either direction.
- (e) The aircraft must be flown at a height of not more than 7.5 metres above the ground to the lowest point of the aircraft as measured with the aircraft in horizontal flight.
- (f) Prior to take-off, the aircraft will be at rest and positioned so that the nose of the aircraft is behind the start line. The flight shall start from rest and will commence with the aircraft airborne as the nose of the aircraft crosses the Start Line A-B, it then flies a figure of eight around the turning points crossing the mid point line C-D roughly at its centre. The flight shall end when the aircraft touches down. The flight is complete when the pilot lands the aircraft and brings it to rest to the satisfaction of the Official Observers. The aircraft shall be serviceable after the flight. If there is any doubt, a take off shall be demonstrated within one hour.
- (g) The aircraft must be in continuous flight over the course. The completed flight will comprise the takeoff climb, one complete circuit of the course, and thereafter as many further complete or partially complete circuits of the course as can be flown.
- (h) Points are awarded each time the aircraft crosses one of the lines, A-B, C-D, E-F. Thus the first complete figure of eight scores 7 points. Each subsequent crossing of one of the lines scores an additional point.
- (i) The first prize will be given to the aircraft that completes the course and accumulates the highest number of points at the BHPFC Icarus Cup.
- (j) The second prize will be given to the aircraft with the second highest number of points at the BHPFC Icarus Cup.

- (k) The third prize will be given to the aircraft with the third highest number of points at the BHPFC Icarus Cup.
- (l) If two aircraft have the same number of points at the end of an Icarus Cup the aircraft that has flown farthest will win first prize.
- (m) Partial circuits shall be measured from the nearest turning point to the point where the aircraft touches down.

4. Observation

- (a) Every official flight shall be observed by official observers appointed by the BHPFC.
- (b) The agreed course and the observation of the flight shall be conducted by its observers in accordance with the provisions of the Sporting Code of the FAI, and these Regulations and Conditions.
- (c) The flight shall be observed by BHPFC officials throughout the entire flight.

5. General Conditions

Insurance: Refer to “2018 Rules for BHPFC Icarus Cup Competition” Appendix I.

The Jacobson Figure of Eight Course

