
4. Experimental Aircraft

Discipline 4.1: Homebuilt and Experimental Aircraft

Event Description

Most aircraft from the beginnings of aviation - starting with the Wright brothers' *Flyer* and Santos-Dumont's famous *Demoiselle* - were "home-made". Today, the amateur-built and experimental aircraft community provides the largest and most representative picture of aviation, ranging from the reconstruction/restoration of historical aircraft up to most advanced and innovative technological solutions. They therefore offer plenty of opportunities for attractive demonstrations and exhibitions.

Depending on the location of the World Air Games 2009, and on the infrastructure and resources made available by the future host, the amateur-built and experimental aircraft movement will propose one or more of the following pre-selected events:

1. Public assembly of an international homebuilt aircraft up to flying condition (subassemblies pre-built by young people in various countries).
2. Pylon Race demonstration/competition for homebuilt racers aircraft (new Class under development. Prototype ready to fly soon).
3. Contest for "Best built/restored Aircraft" rewarding the workmanship, manufacturing techniques and/or innovation (by category).
4. Arrival of a dedicated rally for homebuilt aircraft.
5. Fuel economy race for Amateur-built aircraft.
6. Demonstrations and/or world record attempts in electrically, solar-powered and flapping wing aircraft.

During Phase 1 of the bidding process, bidders are invited to inform FAI whether they are interested in hosting one or more of the aforementioned events related to amateur-built and experimental aircraft.

Venue

- *Location:* Main venue.
- *Air Space Requirements:* Open.
- *Event Site:* Each event listed above would require at least a concrete runway, a hangar for aircraft maintenance/assembly and adequate indoor and/or outdoor exhibition surfaces. The intention would be to offer spectators of the World Air Games the opportunity to walk around attractive homebuilt machines, to observe the assembly phases of an aircraft

construction, to take part in a number of side events (workshops, conferences, lectures, workshop for youth animated by young people, etc.).

- *Timing:* Open.

Competitors

- *Competitor type:* Individuals (event No.2). Groups or teams for other events.
- *Team Composition:* 1 pilot (event No.2). Variable for other events.
- *Number of entrants:* Approx. 5 (event No.2). Other events : Open
- *Support personnel:* Open (Events would mainly rely on personnel recruited by the national aircraft homebuilders association).
- *FAI – CIACA Referees:* 2-8 persons depending on selected events.

Duration

- *Practice Days:* Open
- *Competition days:* Open
- *Reserve Days:* Open
- *Time per round:* Open

Technical Equipment specifically required for this event

- Open

Estimated Operational Budget

- Open