

SAILPLANE DESIGN COMPETITION

In Conjunction With

The 23rd Annual U.S. National Soaring Championships

The 23rd Annual U. S. National Soaring Championships will include a Sailplane Design Competition sponsored by the Soaring Society of America. Its purpose will be to stimulate development and construction of new and better sailplanes in the United States.

Tentative rules of the competition are as follows:

I. Eligibility:

1. All designs developed since 1 January 1952 are eligible for entry.
2. Designs which have been previously entered in one of the competitive classes may *not* be entered in the same class in this competition. (They may, however, be entered in any other class and so be eligible for both the respective class and/or the Sweepstakes award.)
3. Entrants must be members of the Soaring Society of America.
4. Design must be represented by a flying entry in the 23rd National Soaring Contest to be eligible. (A flying entry requires a minimum of a C.A.A. experimental license and acceptance as an entry by the National Soaring Contest Technical Safety Committee.)

II. Competitive Classes:

1. Two separate design classes have been established for the competition.

(Class 1) HIGH PERFORMANCE SAILPLANE

—Design may be original or a major modification of an existing design provided such modification is of scope and nature which materially improve the original design.

(Class 2) INTERMEDIATE OR UTILITY SAILPLANE

—Design may be either single or multi-place and may be original or a

major modification of an existing design provided such modification is of scope and nature which will materially improve the original design.

III. Entries:

1. Entries may be made when registering for the National Soaring Contest.
2. Each design may be entered in one and only one of the two competitive classes.

IV. Evaluation:

1. All evaluation in this competition will be on a relative basis and not on an absolute scale.
2. Decisions of the Committee are final.
3. Entries will be evaluated on the following characteristics:

CLASS I (High Performance)		Point Award
A Performance		400
B Pilot comfort and handling in flight		300
C Ground handling characteristics		200
D Construction		100
Total possible points		1000

CLASS II (Intermediate-Utility)		Point Award
A Flight handling characteristics		350
B Construction		300
C Ground handling characteristics		200
D Performance		150
Total possible points		1000

V. Awards:

1. Competitive Class awards. An award in the form of a trophy will be made for the design judged best in each class. This award will be retained permanently by each class winner.
2. Sweepstakes award. An award in the form of a trophy will be awarded to the design which in the opinion of the committee does the most to advance soaring. This trophy will be a traveling trophy and will be re-awarded each time a design competition is held.

VI. Data and Statistics:

1. All information relative to the design entry must be submitted with the entry. This information may consist of data, drawings, photographs etc., as desired, but must include the following:

- a. Wing Span
- b. Fuselage length
- c. Wing area
- d. Aspect ratio
- e. Design gross weight
- f. Empty weight
- g. Wing loading
- h. Wing airfoil section (Root)
(Tip)

i. Design criteria:

- (1) Design in MPH
- (2) Stalling speed in MPH
- (3) Max. L/D
- (4) Speed for Max. L/D in MPH
- (5) Min. sinking speed in FPS
- (6) Speed for Min. sink in MPH
- (7) Design Accel. X.....
Y....., Z.....

*You are invited to take part
in the*

**N. E. STATES SOARING
CHAMPIONSHIPS**

**JULY 7th and 8th
and thereafter to compete in the**

**SUMMER REGATTA
CONTEST**

*each Saturday commencing
July 14 through August 25.*

**THE ANNUAL ONE DESIGN
CLASS COMPETITION**

*will be held Sept. 1st, 2nd
and 3rd.*

*All these events will take place
at the World's Leading
Soaring Center*

ELMIRA, NEW YORK

Plan to spend a few days this summer at *Elmira* where excellent accommodation and facilities await you. Operations personnel will be on duty through July and August.