

# XXIII OSTIV CONGRESS

## Call For Papers

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The XXIII Congress of the International Scientific and Technical Organization for Soaring Flight—"Organisation Scientifique et Technique Internationale du Vol à Voile" (OSTIV)—will be held at the site of the World Gliding Championship in Borlänge, Sweden from June 7 to June 20, 1993. Practice days from May 31 to June 5, 1993 and opening ceremony on June 6, 1993. Prize giving will be on June 21, 1993.

The schedule of presentations for the XXIII Congress will follow in subsequent issues of Technical Soaring magazine as well as in other soaring publications.

The conference addresses all scientific and technical objectives of soaring flight and also aspects of soaring in motor gliding, hang gliding, paragliding and ultralight aircraft.

Opportunity of presentation and discussion of papers is given in the following types of sessions:

### *Meteorological Sessions:*

Meteorology, Climatology, Atmospheric Physics

### *Technical Sessions:*

Aerodynamics, Structures, Materials, Design, Maintenance

### *Training and Safety Sessions:*

Training and Safety, Coaching, Health Physiology, etc.

### *Joint Sessions:*

Scientific and technical topics, review or news, presented in an informative and entertaining way for the broader interest of the World Gliding Championships and OSTIV.

Topics on instrumentation, electronics, safety, statistics and other systems technologies will be included in the type of session for which the application of the technology is most relevant.

### **Typical and Suggested Topics**

#### *Meteorological sessions:*

##### Meteorology

- Mesoscale and small convective, baroclinic or orographically induced phenomena
- New observations; measurements or analysis of convergence lines, cellular patterns, shear structures, standing and moving waves, short period cycles, turbulence, boundary layer also in complex

##### terrain

- Analytical techniques of delineating thermal and mesoscale structures from routine or experimental ground or flight data, or from remote sensors
- Modelling of thermals, mesoscale or miniscale structures
- meteorological data acquisition and service for gliding operations
- Meteorological data network and "Do-it-yourself" forecasting for soaring

### *Technical Sessions:*

The technical sessions will cover all aspects of the design, development, and operation of sailplanes, motor gliders, ultralights and solar or man-powered aircrafts. Topics may include, but are not limited to:

- Structural concepts, new materials, fatigue
- Manufacturing Processes
- Aerodynamics
- Stability and control
- Airframe vibration and flutter, sailwings
- Propulsion systems
- Design integration and optimization
- New development, flight testing
- Airworthiness requirements

### *Training and Safety Sessions:*

Training and Safety sessions will be held on subjects covering disciplines such as:

- Flight training, theory and analysis of techniques and results; psychology; objectives, training facilities and material
- Safety, health, human physiology and psychology in connection with soaring
- Human and medical factors in aircraft design and operation
- Piloting techniques
- Flight operations in controlled airspace
- Cockpit instrumentation, safety devices

### *Joint Sessions:*

Joint sessions are collecting topics of general interest in the field of gliding such as:

- General philosophy of competition classes
- Documentation of badge and record flights
- Competitions

- Common interests with other air sports
- Meteorological links across diverse air sports like hanggliding, paragliding, microlights etc.
- Man-powered flight
- Solar-powered flight

#### Deadline for abstracts and final manuscripts

The deadline for abstracts is January 31, 1993. A comprehensive abstract of at least 500 words (each figure is considered equivalent to 100 words) should be sent to the session's chairperson and, in any case, one copy to the OSTIV-Secretariate for the preparation of a booklet of extended abstracts. Letters of acceptance, together with instructions for paper preparation, will be mailed by March 1, 1993. The final manuscript must be received by the chairperson not later than May 20, 1993. The papers should not exceed the equivalent length of 24 double-spaced typewritten standard size pages, where each normal sized figure counts as one page. Oral presentations at the conference will be limited to 35 minutes and should consist of highlights of the written manuscript. The full papers will appear, as usual, in *Technical Soaring* starting in its OSTIV Section following the congress, after being reviewed by the section chairman and the OSTIV-Editor.

Abstracts, extended abstracts and final manuscripts should be sent to:

#### *Meteorological and Joint Session Papers*

C.E. Wallington  
Chairman, OSTIV Scientific Section  
15 Fitzgerald Street  
Yarralumia, A.C.T. 2600  
Australia  
Phone: (+61) 62-81 3014

#### *Technical Session Papers*

Winfried M. Feifel  
Chairman, OSTIV Technical Section  
7107 South Ryan Street  
Seattle, Washington 98178  
U.S.A.  
Phone: (+1) 206-772-7021

#### *Training and Safety Session Papers*

William G. Scull  
Chairman, Training and Safety Panel  
6 Will Hall Close  
Alton, Hants. GU 34 1QP  
England  
Phone: (+44) 42083553

and in any case, one copy should also be sent to:

OSTIV-Secretariate,  
c/o DLR, D-8031  
Wessling  
F.R.G.

The lecture facilities at the Congress will include:

- A 50mm X 50mm (24mm\*36mm picture area) slide projector
  - An overhead projector (Viewgraph)
  - Other facilities can be offered by special request
- There is no registration fee for the congress.

If you would like further information about OSTIV or the Congress, or if you wish to attend the congress or present a paper, please notify the appropriate parties not later than December 31, 1992 at the appropriate addresses.

#### Call for Nominations for OSTIV Plaque/Klemperer Award

At each OSTIV Congress, an OSTIV Plaque (which carries a monetary award) is presented to the person who has made a noteworthy scientific or technical contribution to soaring flight.

The prize for the year 1992 will be presented during the Opening Ceremony of the XXIII OSTIV Congress.

Nominations can be sent in by all OSTIV Members, active as well as individual. In making such nominations, particular attention should be given to recent contribution to soaring flight by the nominee, although earlier outstanding work will also be taken into account. Nominations should include details of the nominee's contributions, and also a short biography. The nominee's full name and address must also be given. All nominations for the OSTIV Plaque/The Klemperer Award must be received by: Dr. Manfred Reinhardt, The President of OSTIV c/o DLR, D-8031 Wessling OBB. West Germany by January 31, 1993.

A form to be used as a notice of intent to present papers at this OSTIV Congress follows, or is available by writing to:

The Soaring Society of America, Inc.  
P.O. Box E  
Hobbs, New Mexico 88240 U.S.A.

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## SPECIFICATIONS FOR PAPERS PRESENTED TO OSTIV CONGRESS

*Technical Soaring* magazine is presently under agreement with OSTIV to publish papers which are accepted and presented to the OSTIV Congresses. This agreement requires that papers prepared for the Congress meet certain limited specifications.

The following are specifications which must be met by those submitting such papers:

**MATHEMATICS:** Equations and symbols must be typewritten. Symbols that are not available on the typewriter may be handwritten, but clarity is essential. Identify each handwritten symbol so that a reader can distinguish between capital and lower case letters, ie. the letter o and the number 0, the letter k and the symbol kappa, etc. The solidus (/) may be used for fractions in the text and for simple fractions in displayed equations.

**ILLUSTRATIONS:** Line drawings must be clear and sharp. Use black ink on white paper or tracing cloth. Lettering should be large enough to be legible (atleast 1/16 th inch or 1.6mm high) after reduction. Not all figures will necessarily be reduced to column width (3 1/4 inches or 82.55 mm), however. Photographs should be glossy prints, not matte or semimatte. Each figure must have a caption and each figure should be cited in numerical order in the the text. No xerox copies will be accepted as originals.

**TABLES:** Type a double rule at the top and bottom of each table and a single rule under the column headings. Table footnotes should be placed under the final double rule and should be indicated by letter a, b, c, etc. Each table must have a number and caption, with citation in numerical order in the text.

**SYMBOLS AND UNITS:** Use standard symbols and consistent units throughout (metric or English).

**FORMAT:** Papers must be presented typewritten, double spaced, with one original copy designated for publication purposes (in other words, one set beyond the needs of the OSTIV Congress). Only one set of camera-ready illustrations, charts, etc. need accompany the papers.

It is sincerely hoped that requiring papers presented meeting these specifications will allow for a higher quality of presentation in *Technical Soaring*. Papers offered to the OSTIV Congress not meeting these specifications may not be published.