

CALL FOR PAPERS

The XXII Congress of the International Scientific and Technical Organization for Soaring Flight "Organisation Scientifique et Technique Internationale du Vol a Voile" (OSTIV) will be held at the site of the World Gliding championships in Minden, Nevada, USA, from July 3-12, 1991.

The conference addresses all scientific, technical, training and operational objectives of soaring flight and, also, aspects of soaring in motorgliding, hanggliding, paragliding and ultralight aircraft.

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

SCIENTIFIC SESSIONS: Meteorology, climatology, atmospheric physics.

TECHNICAL SESSIONS: Aerodynamics, structures, materials, design, maintenance.

JOINT SESSIONS: Interdisciplinary topics: Training and safety, coaching, health, physiology, etc.

EDUCATIONAL 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 gathering.

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 ARE:

Scientific 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, motorgliders, ultralights and solar or manpowered aircraft. Topics may include, but are not limited to:

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

Joint Scientific/Technical sessions:

Joint sessions will be held on subjects covering both 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
- Meteorological navigation, dynamic soaring
- Meteorological links across diverse air sports like hang- and paragliding, microlights, etc.
- Piloting techniques
- Flight operations in controlled airspace

- Cockpit instrumentation, safety devices
- General philosophy of competition classes
- Documentation of badge and record flights
- Competitions
- Man-powered flight
- Solar-powered flight
- Common interests with other air sports.

Deadline for Abstracts and Final Manuscripts

The deadline for abstracts is January 31, 1991. A comprehensive abstract of at least 500 words (each figure is considered equivalent to 100 words) should be sent to the sessions chairmen and — in any case — one copy to the OSTIV Secretariate for preparing of a preprint of extended abstracts. This preprint will include all abstracts submitted in time. Letters of acceptance, together with instructions for paper preparation will be mailed by March 1, 1991.

The final manuscript must be received by the chairmen not later than May 20, 1991. The papers should not exceed the equivalent length of 24 double-spaced type-written 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 *ft11 Technical Soaring*, *ft10* starting in the OSTIV SECTION immediately after the congress being reviewed by the section chairman and the OSTIV Editor.

Scientific papers, Joint sessions papers and Educational sessions papers should be sent to:

Prof. C.E. Wallington
 Chairman, OSTIV Scientific Section
 15 Fitzgerald Street
 Yarralumla, A.C.T. 2600
 Australia
 Telephone: Area code (62) 813014

Technical papers should be sent to:

Dipl. Ing. Winfried M. Feifel
 Chairman, OSTIV Technical Section
 7107 South Ryan Street
 Seattle, Washington 98178
 USA
 Telephone: Area code (206) 772-7021

One copy of the submitted paper — in any case — must be sent to:

OSTIV - Secretariate
 c/o DLR - Inst. Atm. Physics
 D-8031 Wessling/Obb.
 Fed. Rep. of Germany

Lectures facilities at the Congress will include:

- A 55 mm - 50 mm (24 mm - 36 mm picture area) slide projector
- An overhead projector (viewgraph)
- 8 mm and 16 mm movie projectors
- USA style Beta and VHS video projectors
- 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 send in a reply form not later than January 1, 1991 to the relevant addresses.

Call for Nominations OSTIV Plaque/The 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 1990 will be presented during the Opening Ceremony of the XXIIth OSTIV Congress.

Nominations can be sent in by all OSTIV members, active as well as individuals. In making such nominations, particular attention should be given to recent contributions 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, 1991.

—Dr. Manfred E. Reinhardt
 OSTIV President