

OSTIV ANNOUNCEMENT

XXIV OSTIV CONGRESS

Call For Papers

The XXIV 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 Championship in Omarama, New Zealand, from January 12 to January 19, 1995.

The conference addresses all scientific and technical objectives of soaring flight and also aspects of soaring in motorgliding, 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, motorgliders, ultralights and solar or man-powered

aircrafts. 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
- Cockpit instruments, including navigational instruments (GPS, etc.)

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 navigation, dynamic soaring
- Meteorological links across diverse air sports like hanggliding, paragliding, microlights, etc.
- Man-powered flight
- Solar-powered flight

Deadline for Short Summary, Extended Abstract and Final Paper

The deadline for the Short Summary (about 5-10 lines with or overleaf the reply form) is March 31, 1994. Letters of acceptance together with instructions for paper preparation will be mailed by May 1, 1994.

The deadline for the Extended Abstract is July 31, 1994. It should be at least 500 words (each figure is considered equivalent to 100 words) to 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, The Congress Preprint.

The Final Paper must be received by the chairperson not later than November 15, 1994. 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 manu-

script. 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. Please use the "Advance Notice" form to advise of your intentions to submit a paper to the Congress.

Short Summaries, Extended Abstracts and Final Papers should be sent to:

Meteorological and Joint Session Papers

Dr. H. Trimmel
Chairman, OSTIV Scientific Section
Bründelgasse 34
A-2512 Tribuswinkel
Austria
Phone: (+43) 2252-86494 or (+43) 1-79798-4000
FAX: (+43) 1-79798-4006

Technical Session Papers

Winfried M. Feifel
Chairman, OSTIV Technical Section
7107 South Ryan Street
Seattle, Washington 98178
U.S.A.
Phone: (+1) 206-965-0226 or (+1) 206-772-7021
FAX: (+1) 206-234-4543

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) 420-83553
FAX: (+44) 420-83553

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

OSTIV-Secretariate,
c/o DLR,
D-82234 Wessling

Germany

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 complete a reply form and mail as soon as possible, but not later than March 31, 1994 to the relevant addresses. Reply forms are available by contacting the Soaring Society of America, Inc., P.O. Box E, Hobbs, New Mexico, USA 88240 or by phone (+1) 505-392-1177 or FAX (+1) 505-392-8154.

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 1995 will be presented during the Opening Ceremony of the XXIV 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-82234 Wessling, Germany, by July 31, 1994.

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, i.e. 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 (at least 1/16th 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 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.