

XXI OSTIV CONGRESS

The XXIst 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 Championships in Wiener Neustadt, Austria, from May 18–26, 1989.

The conference addresses all scientific and technical aspects of soaring flight as well as motorgliding and ultralight aircraft.

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

SCIENTIFIC SESSIONS: Meteorology and Climatology, Flying Training, Health, Physiology.

TECHNICAL SESSIONS: Aerodynamics, Structures, Materials, Design, Maintenance, Training.

JOINT SESSIONS: Interdisciplinary topics

EDUCATIONAL SESSIONS: Scientific and technical topics, reviews or news, presented in an informative and entertaining way for the broader interests 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:

Meteorology

Mesoscale and small convective, baroclinic or orographically induced phenomena.

New observations, including 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 thermal, mesoscale or miniscale structures.

Meteorological data acquisition and services for gliding operations.

Meteorological data network and "do-it-yourself" forecasting for soaring.

Flight Training

Theory and analysis of techniques and results, psychology, objectives, training facilities and material.

Health

Human physiology and psychology in connection with 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 crafts. 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 developments, flight testing
- Airworthiness requirements
- Piloting techniques, training and safety
- Flight operations in controlled airspace
- Competitions, documentation of badge and record flights

JOINT SCIENTIFIC/TECHNICAL SESSIONS:

Joint sessions will be held on subjects covering both disciplines such as:

- Human and medical factors in aircraft design and operation.
- Meteorological navigation, dynamics soaring.

Meteorological links across diverse air sports like hang-gliding, paragliding, microlights, etc.

Cockpit instrumentation, safety devices.

General philosophy of competition classes.

Flying techniques.

Man-powered flight.

Solar-powered flight.

Common interests with other air sports.

Abstracts are desired by January 15, 1989. A comprehensive abstract of at least 500 words (each figure is considered equivalent to 100 words) should be sent to the sessions chairperson and, in any case, one copy to the OSTIV Secretariate for preparation of a booklet of extended abstracts. Letters of acceptance, together with instructions for paper presentation will be mailed by March 1, 1989. The final manuscripts must be received by the chairpersons no later than May 1, 1989. The papers should not exceed the equivalent length of 24 double-spaced typewritten standard sized 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 conference volume will include all manuscripts submitted in time.

Scientific Papers, Joint Sessions, Papers and Educational Sessions

Papers should be sent to:

Prof. C.E. Wallington

Chairman, OSTIV Scientific Section

15 Fitzgerald Street

Yarralunla, 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

U.S.A.

Telephone: Area code (206) 772-7021

Lecture facilities at the Congress will include:

A 55 mm, 50 mm (24 mm, 36 mm picture area) slide projector.

An overhead projector (viewgraph).

An 8 mm film sync projector.

A 16 mm film sync projector and

A video-recorder unit (VHS-European Standard).

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 1989 will be presented during the Opening Ceremony of the XX1st 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 DFVLR, D-8031 Wessling, OBB, West Germany, by January 31, 1989.