

XXVII. OSTIV-CONGRESS 2001 AT MAFIKENG, SOUTH AFRICA 13-20 DECEMBER 2001

CALL FOR PAPERS

The XXVII. Congress of the "International Scientific and Technical Organisation for Soaring Flight" – Organisation Scientifique et Technique Internationale du Vol à Voile (OSTIV) - will be held at the site of the 27th World Gliding Championships i.e. the International Airport, Mafikeng, North West Province, South Africa, on 13-20 December 2001.

The Congress addresses all scientific and technical aspects of soaring flight including motorgliding, hanggliding, paragliding and ultralight sailplane.

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

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 system technologies will be included in the sessions for which the application of the technology is most relevant.

TYPICAL AND SUGGESTED TOPICS ARE:

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 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 microscale structures;
- Meteorological data acquisition and service for gliding operations;
- Forecasting for soaring;
- Soaring climatology.

Technical Sessions:

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

- Structural concepts, new materials, fatigue, crashworthiness;
- Manufacturing processes;
- Aerodynamics;
- Stability and control;
- Airframe vibration and flutter;
- Propulsion systems;
- Design integration and optimisation;
- New developments in flight testing;
- Airworthiness requirements;
- Cockpit instruments, including navigation 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 operation in controlled airspace;
- Safety devices.

Joint Sessions:

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

- General philosophy of competition classes;
- Documentation of badge and record flights;
- Common interests with other air sports;
- Meteorological links across diverse air sports like

- hanggliding and paragliding, microlights etc.;
- Man-powered flight; Solar-powered flight.

Deadline for Abstracts and Final Paper:

The deadline for the Abstracts –max. two A4 pages– is July 31, 2001.

Letters of acceptance together with instructions for paper preparation will be mailed by August 31, 2001. Deadline for the Paper is October 31, 2001. The paper should not exceed the equivalent length of 24 double-spaced typewritten standard size pages, including figures.

Oral presentations at the Congress will be limited to 35 minutes and should consist of highlights of the written paper.

The paper will be published in OSTIV's refereed Journal of Technical Soaring (ISSN 0744-8996), starting immediately after the Congress.

Please use the form below to send 2 copies of your Abstract to the OSTIV Secretariat, clearly marked by either meteorological-, technical-, training and safety- or joint session.

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, please complete the form below and send it to the OSTIV Secretariat before July 31, 2001.

Call for nominations OSTIV Plaque/ The Klemperer Award:

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

The prize for the year 2001 will be presented during the Opening Ceremony of the XXVIIth OSTIV Congress.

All OSTIV Members can send in nominations, Active as well as Individual. 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 L.L.M. Boermans, the President of OSTIV, c/o TU Delft, Fac. Aerospace Engineering, Kluyverweg 1 NL-2629 HS Delft, The Netherlands by July 31, 2001.

Form

Note of interest/ Abstract (XXVII OSTIV Congress, 13-20 December 2001):