



XXIX OSTIV-Congress 2008 Lüsse-Berlin, Germany
6 August – 13 August 2008

www.ostiv.fai.org

Call for Papers

The XXIX 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 30th World Gliding Championships in the Open-, 18m- and 15m Class, Lüsse, Germany, on

6 August- 13 August 2008

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

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:

The sessions will cover all aspects of meteorology, climatology and atmospheric physics. Topics may include, but are not limited to:

- 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:

- Airworthiness, 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 like hanggliding, paragliding, microlight and ultralight sailplanes and aero-modelling;
- Man-powered flight; solar-powered flight.

