



XXX OSTIV-Congress 2010 Szeged, Hungary

21 - 28 July 2010

www.ostiv.fai.org

Call for Papers

The XXX 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 31th World Gliding Championships in the Open-, 18m- and 15m Class, Szeged, Hungary, from

21 – 28 July 2010

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

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

Scientific Sessions:

Meteorology, Climatology and Atmospheric Physics as related to soaring flight.

Technical Sessions:

Aerodynamics, Structures, Materials, Design, Maintenance.

Training and Safety Sessions:

Training and Safety, Coaching, Health, Physiology.

Joint Sessions:

Scientific and technical topics, reviews 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:

Scientific Sessions:

Meteorology

- Meteorological data acquisition and service for gliding operations;
- Weather forecasting for soaring flight;

Climatology:

- Climate-change and soaring

Atmospheric Physics:

- 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;

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, microlights and ultralights;
- Man-powered flight; Solar-powered flight.

