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Call for Papers

XXXII OSTIV Congress, Leszno, Poland

30 July–6 August, 2014

The XXXII Congress of the "International Scientific and Techncial Organisation for Soaring Flight" — Organisation Scientific et Technique Internationale du Vol à Voile (OSTIV) — will be held at the site of the 33rd FAI World Gliding Championships in the Open-, 18m- and 15m Class, Leszno, Poland from 30 July to 6 August, 2014. The Congress addresses all scientific and technical aspects of soaring flight including motorgliding, hanggliding, paragliding, ultralight sailplanes and aeromodeling.

Opportunity for 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 and Sailplane development.

Training and Safety Sessions: Training and Safety, Coaching, Health and 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, 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

Scientific Sessions

- Meteorology:
  - Meteorological data acquisition and service for gliding operations
  - Weather forecasting for soaring flight
- Climatology:
  - Climates that support soaring flight
  - 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
  - Modeling 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 human-powered aircraft. Topics may include, but are not limited to:

- Airworthiness, structural concepts, new materials, fatigue, crashworthiness, manufacturing processes
- Aerodynamics and flight mechanics
- Trajectory optimization
- Stability and control
- Airframe vibration and flutter
- Propulsion systems
- Design integration and optimization
- New developments in flight testing
- Airworthiness requirements
- Cockpit instruments, including navigation instruments (GPS etc.)
- Autonomous soaring

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
- Human and medical factors in aircraft design and operation
- Piloting techniques

- Flight operation in controlled airspace
- Safety devices

Joint Sessions

Joint Sessions cover topics of general interest in the field of gliding such as

- Soaring history
- General philosophy of competition classes
- Documentation of badge and record flights
- Common interests with other air sports like hanggliding, paragliding, microlights and ultralights
- Human-powered flight; Solar-powered flight.

Deadline for Abstracts and Final Paper

The deadline for the Abstracts — max. two A4 pages including figures — is **1 June, 2014**. Letters of acceptance together with instructions for paper preparation will be mailed by **15 June, 2014**. Papers are requested by **1 July, 2014**. Guidelines are on the *Technical Soaring* website (journals.sfu.ca/ts/) and published in every issue of *Technical Soaring*. Please use the form below to send a copy of your Abstract to the OSTIV Secretariat, clearly marked as either scientific-, technical-, training and safety- or joint-session.

Oral presentations at the Congress will be limited to 30 minutes and should consist of highlights of the written paper. The paper may be submitted to OSTIV's refereed international journal *Technical Soaring* (ISSN 0744-8996) after the Congress.

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.

Call for nominations OSTIV Plaque / Klemperer Award

During the Opening Ceremony of OSTIV Congresses the OSTIV Plaque and Klemperer Award may be presented to the person who has made the most noteworthy scientific and/or technical contribution to soaring flight in recent years. All Active and Individual OSTIV Members can send in nominations. In making such nominations, particular attention should be given to recent contributions to soaring flight by the nominee, although earlier outstanding work also will be taken into account. Nominations should include details of the nominee's contributions and a short biography. All nominations for the OSTIV Plaque / Klemperer Award must be received by L. M. M. Boermans, the President of OSTIV, c/o TU Delft, Fac. Aerospace Engineering, Kluyverweg 1, NL-2629 HS Delft, The Netherlands by **1 May, 2014**.

Note of interest / Abstract XXXII OSTIV Congress, 30 July–6 August, 2014

Send this form (or a copy) before **1 June, 2014** to: OSTIV-Secretariat c/o TU Delft, Faculty of Aerospace Engineering, Kluyverweg 1, NL 2629 HS Delft, The Netherlands via either email to l.m.m.boermans@tudelft.nl or via fax to (+31) 15 2783533

☐ Please, send general information about OSTIV

☐ Please, put my name on the mailing list for further information about the XXXII OSTIV Congress

☐ I wish to attend the XXXII OSTIV Congress.

☐ I wish to present a paper at the XXXII OSTIV Congress in the:

- ☐ Scientific Session
- ☐ Technical Session
- ☐ Training and Safety Session
- ☐ Joint Session

Name: .....

Affiliation: .....

Address: .....

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Phone: .....

Fax: .....

E-mail: .....

Provisional title of paper: .....

The Abstract of my paper is described in the overleaf