



## Call for Abstracts

International Scientific and Technical Organisation for Gliding (OSTIV)  
www.ostiv.org

## XXXV OSTIV Congress

18 – 23 July, 2021

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**The XXXV Congress of the International Scientific and Technical Organisation for Gliding (OSTIV) will be held from 18 - 23 July, 2021. Depending on the pandemic situation during July 2021, the Congress will be organized as a virtual meeting, or it will take place at the site of the 36th FAI World Gliding Championships in the 18m-, 20m-, and Open Class, in Stendal-Borstel, Germany. 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:**  
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:**  
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

Technical sessions will cover all aspects of design, development and operation of sailplanes, motorgliders, ultralights and solar-or human-powered aircraft. Topics may include

- Airworthiness, structural concepts, new materials, fatigue, crash-worthiness, 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.

### **Deadlines for Abstracts and Final Congress Contribution**

The deadline for the Abstracts - max. two A4 pages including figures - is 5 March, 2021. Letters of acceptance together with instructions for paper preparation will be mailed by 29 March, 2021. **Final four-page Summaries** of your contribution to be included in the conference booklet are requested by 15 June, 2021. Please use the form below to send a copy of your Abstract to the OSTIV Secretariat, [admin@ostiv.org](mailto:admin@ostiv.org). This form is also available on the OSTIV Website, [www.OSTIV.org](http://www.OSTIV.org)

### **Congress Presentations**

Oral presentations at the Congress will be limited to 30 minutes. There is no registration fee for the Congress. OSTIV encourages submission of full papers to the international journal Technical Soaring (ISSN 0744-8996) after the Congress.

### **Best Student Papers Awards**

Awards of EUR 200 will be presented to the students delivering the best presentations in the Scientific and Technical Sections. To be eligible, presenters must be the first author and submit an abstract and four-page summary by the aforementioned deadlines, as well as a manuscript to Technical Soaring prior to the Congress. Students who are unable to attend the Congress may designate a representative to present the work on their behalf.

### **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 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 R. Radespiel, the President of OSTIV, c/o TU Braunschweig, Institute of Fluid Mechanics, Hermann-Blenk Str. 37, D-38108 Braunschweig, Germany, [president@ostiv.org](mailto:president@ostiv.org) by 5 March, 2021.

### **Congress Site and Attendance**

At the time of this CfA publication, there is significant uncertainty about the future development of the Coronavirus disease. Depending on the situation during July 2021, the Congress will be organized as a virtual meeting, or it will take place at the site of the 36th FAI World Gliding Championships in the 18m-, 20m-, and Open Class, in Stendal-Borstel, Germany. The option of an attended event will be only considered, if the international situation and local regulations allow for safe travel to the Congress and safe meeting procedures. The Congress Organizer will provide digital means of Congress participation under all circumstances. The Organizer will decide about the Congress mode of operation by the end of May 2021.



## Pre-Registration Form and Abstract

**XXXV OSTIV Congress**  
**18 – 23 July, 2021**

Please send the pre-registration form to [admin@ostiv.org](mailto:admin@ostiv.org) by 5 March, 2021

I wish to attend the XXXV OSTIV-Congress

I wish to present a paper at the XXXV OSTIV-Congress

..... Scientific Session

..... Technical Session

..... Training and Safety Session

..... Joint Session

Name: .....

Affiliation: .....

City, Country: .....

E-mail: .....

**Title of paper:** .....

Abstract (maximum single page):