



Report

Organization Scientifique et Internationale du Vol à Voile (OSTIV)
International Scientific and Technical Gliding Organisation
www.ostiv.org

Rolf Radespiel, President

International Gliding Commission
Plenary on 3-5 March 2022
online

Braunschweig, February 2022

Report on the activities of OSTIV for the period 1 March 2020 to 1 March, 2021

1. Overview of OSTIV Board Operations

Extended Board of OSTIV:

President: Prof. Dr. Ing. Rolf Radespiel, Germany

Vice-President: Prof. Dr. Mark Maughmer, USA

Members: Prof. Dr. Zafer Aslan, Turkey; Dr. Goetz Bramesfeld, Canada; Dipl.-Ing. Michael Greiner, Germany; Dr. Judah Milgram, USA; Richard Carlson, USA; Dr. Ing. Lukas Popelka, Czech Republic; Ir. Gerard Robertson, New Zealand.

The Journal "Technical Soaring (TS)" is an Online Journal, appearing quarterly. TS is downloaded from <http://journals.sfu.ca/ts/index.php/ts>. Chief Editor is Dr. Kurt Sermeus, Canada.

Note that the TS issues of the last 12 months are only accessible by login. This is a privilege of members only. Non-members can download TS from the 13th month after publishing.

The Board worked on means to improve the outreach of OSTIV. These are

- most of previous OSTIV publications are now digitized,
- free membership to students,
- establishing joint technical sessions sponsored by OSTIV and AIAA on sailplane research and technology, to be held annually as part of the AIAA Aviation Conference.

2. Panel meetings

The Sailplane Development Panel (SDP), chaired by Michael Greiner, had its last annual meeting on 17-18 July 2021 online. The meeting was attended by 25 engineers from 8 countries. Items discussed were:

- Need to update flutter requirements in CS 22
- Re-organization of certification department at EASA
- safety of powered sailplanes
- installation of a crashworthy cockpit group, interested people are invited to join
- gust loads of very light sailplanes
- spiral dive
- update of OSTIVAS

Address: OSTIV c/o TU Braunschweig,
Institute of Fluid Mechanics
Hermann Blenk Str. 37
D-38108 Braunschweig, Germany

Phone: +49 531 39194250
e-mail: president@ostiv.org

Bank: Deutsche Bank AG
D-38108 Braunschweig, Germany
Bic code: DEUTDE33
IBAN code: DE33 2707 0024 0345 8999 00



Next SDP meeting will take place most likely in July 2022.

The Training and Safety Panel (TSP), chaired by Richard Carlson, met on 14 and 16 September 2021 online. The TSP meeting discussed the following items:

- TSP has produced “Best Practices for Gliding - a Recommended Safety Guide”. The draft will be published as soon as possible.
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- National and EASA statistics on incidents and accidents.
- Glider Angle-of-attack indicator
- flight data sourcing and mining

Date and place of the next TSP meeting will be announced by the Chair.

The Meteorological Panel (MP), chaired by Prof. Dr. Zafer Aslan, had its last meeting on 17 and 18 February 2021 online. Lectures on a variety of subjects were presented, that included the areas of weather forecasting, thermals, characterization of waves, fundamental studies, and future areas of cooperation within the Meteorological Panel.

During the months since March 2021 the MP has supported and brought forward a joint activity of World Meteorological Organization, WMO, and OSTIV on updating the Handbook WMO No: 1038 on “Weather Forecasting for Soaring Flight”. Decision has been made to disseminate important information in this respect online, with a specific website, <https://moodle.zhaw.ch/course/view.php?id=5682> that will be refined and extended in the future.

3. Joint work of IGC and OSTIV on safety in competition flying

OSTIV has been in continuous communications with IGC about the need to improve safety in contests for quite some time. Following the OSTIV/IGC seminar on pro-active safety methods that took place along with the IGC plenary in Budapest, IGC President Peter Eriksen has taken the initiative to organize a joint workshop of IGC and OSTIV on safety hazards and risks at the site of WGC in Matkopuszta, Hungary (23 July - 6 August 2022). The Board of OSTIV welcomes this joint next step. OSTIV views such workshop as a great opportunity to identify suited approaches and measures to enhance safety in competition flying.

4. OSTIV Congress

The XXXV Congress of the International Scientific and Technical Organisation for Gliding (OSTIV) was held online from 19 - 23 July, 2021.

Its first Session on 19 July featured the Award Ceremony for three pioneers of gliding safety. Sakari Havbrandt, Henrik Svensson and Alfred Ultsch have worked for decades to transfer modern methodologies of safety into practical and sustained measures suitable for the air sports of gliding. For their accomplishments Sakari Havbrandt, Henrik Svensson, and Alfred Ultsch jointly received the OSTIV Prize for the year 2021.

The OSTIV Congress comprised 45 presentations, scheduled over 4 days. It was a particular pleasure to observe the high quality of 11 presentations contributed by students and young scientists during the Congress. This quality has convinced the Award Jury of the Congress to

select 4 student contributions to receive a Best Paper Award in the name of Paul McCready, Josef Mertens, and Antony Segal.

The Proceedings from the XXXV OSTIV Congress are available at
<https://www.ostiv.org/congress/congress-events/congress-details/xxxv-congress-2.html>

The Board of OSTIV has made the decision to organise its next Congress to take place at the site of the 38th FAI World Gliding Championships 2024, Uvalde (TX), USA (18m, 20m, Open), 25 August - 7 September 2024. We look forward to establish a trusting cooperation with the organisers of the WGC event.

I would like to close this report by thanking all OSTIV members and friends for their continuous support.

Rolf Radespiel