



ORGANISATION SCIENTIFIQUE  
ET TECHNIQUE INTERNATIONALE DU VOL 'A VOILE  
- O.S.T.I.V. -  
INTERNATIONAL SCIENTIFIC AND TECHNICAL  
ORGANISATION FOR GLIDING  
(Affiliated Member of the Fédération Aéronautique Internationale,  
F.A.I.)

President: L.M.M. Boermans

Delft, January 9, 2013

### **International Gliding Commission**

Meeting on 1 and 2 March, 2013

Papendal, The Netherlands

### REPORT ON THE ACTIVITIES OF THE INTERNATIONAL SCIENTIFIC AND TECHNICAL ORGANISATION FOR SOARING FLIGHT (OSTIV)

for the period March 1, 2012 to February 28, 2013.

Loek M.M. Boermans, President of OSTIV.

### **XXXI OSTIV Congress**

The main event of the reporting period was the **XXXI OSTIV Congress**, held from 8 to 15 August 2012 at the Southwest Texas Junior College in Uvalde, USA, at the site of the 32<sup>th</sup> World Gliding Championships 2012 in the 15m, 18m and Open Class.

At the **Opening Ceremony** of the Congress in the Warbird hangar on the Garner airfield, the following Awards were presented:

The **OSTIV Prize and Morelli Award** was awarded to Dipl.-Ing. Josef Prasser for “his outstanding and world-wide acknowledged meritorious new ideas for improving safety that are characteristic of modern sailplanes: automatic flap-, aileron-, air brake- and T-tail connections, parallelogram control column, and inner fuselage shell for the cockpit area”.

The **Special OSTIV Prize and Morelli Award** was awarded to Hugh Browning “for outstanding safety work that thoroughly investigated and significantly contributed to understanding glider winch launch dynamics which improved the training of pilots to reduce accidents during the launch”.

The **Mertens Award** for the best student contribution at the congress was given to John Bird for his paper “Spline mapping to maximize energy exploitation of non-uniform thermals”.

The **OSTIV Diploma** for the best technical paper presented at the XXX OSTIV Congress in Szeged, Hungary, 2010, was given to Dipl.-Ing. Francois Ragot for his paper “Total Energy – Part 1 and 2”.

The **OSTIV Diploma** for the best meteorological paper presented at the XXX OSTIV Congress in Szeged, Hungary, 2010, was given to Dr. Olivier Liechti for his paper “Regionalized Predictions of Aligned Updrafts and their Tuning for Planning Soaring Flights”.

The **keynote lecture** titled „Developing of a Tailored Safety Program for the U.S. Soaring Community” was presented by Richard Carlson, Chairman of the Soaring Safety Foundation of the Soaring Society of America.

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During the next 5 days of the **Congress**, 30 papers of good quality were presented, dealing with aerodynamics, flight mechanics, dynamic soaring, winch launches, design and development, crashworthiness, safety management, materials, fatigue, instruments, convection, mountain waves and meteorological predictions.

After review they will be published in the forthcoming quarterly issues of OSTIV's International Journal of **Technical Soaring**.

At the **Closing Dinner** the President of OSTIV expressed thanks to the Director of the World Gliding Championships Ken Sorenson and Championship Manager Linda Murray for the support, and in particular to OSTIV's Local Representative and Honorary Member Bernald Smith for the organisation of the congress and excursion, and to Britta Schlenker for her indispensable help in organising the Congress to run smoothly.

As a result of the "Safety Pays" initiative this was the first time that the **OSTIV Safety Award** was given to "the pilot who has made the most outstanding contribution to safety at the championships". A survey on safety options used by the pilots gave important information about their commitment to safety. The final decision was taken by the Chairman of the Safety Committee Dick Bradley, the President of the IGC Eric Mozer and the President of OSTIV. At the **Prize Giving Ceremony** of the WGC 2013 in Uvalde the President of OSTIV presented the OSTIV Safety Award to Wolfgang Janowitsch (who had the most points of all pilots) and his Austrian team (that had the most points of all teams).

Following the success of the first and second **OSTIV Speaker Track** at the Convention of the Soaring Society of America in Little Rock (2010) and Philadelphia (2011), OSTIV's Honorary Member Bernald Smith organized another successful OSTIV Speaker Track at the SSA Convention in Reno, USA, from 2 to 4 February 2012.

### **Panel meetings**

The **Sailplane Development Panel (SDP)**, chaired by Helmut Fendt, had its annual meeting at the Southwest Texas Junior College during the two days before the XXXI Congress in Uvalde. Some of the items discussed were:

- the cooperation of the SDP with EASA is working well. For developments of the Certification Specifications for Sailplanes and Powered Sailplanes (CS-22), the SDP is the expert group EASA takes advantage of. The SDP appreciates this and looks forward for future cooperation.
- the experience with the "Safety Pays" initiative, applied for the first time at the World Gliding Championship in Uvalde, will be transferred by the IGC Safety Pays Working Group into a proposal for being adopted during the next plenary meeting of IGC.
- research on winch launching led to a refinement of the formula for calculation of the safe pulling forces during the initial acceleration phase. The panel decided to draft an "OSTIV-Table" with relevant data to supply the recommended safe values to winch drivers.
- a request from the Soaring Safety Foundation (SSF) of the Soaring Society of America (SSA) about the influence of forgotten tail dollies was discussed and SSF was informed accordingly.
- latest information about emergency egress, aero-tow rope forces and results of experiments regarding pilot rescue systems was discussed.

The **next meeting** of the SDP is planned from 9 to 11 October 2013 at the premises of Airbus in Toulouse, France.

The **Training and Safety Panel (TSP)** and **Meteorological Panel (MP)** had no meeting in 2012. The next bi-annual meeting of the TSP and MP will be this year, date and place to be decided yet.

After having served as chairman of the Meteorological Panel and the Scientific Section of OSTIV for many years, Dr. Hermann Trimmel decided to resign. OSTIV is really very much indebted to Dr. Trimmel !

The new chairman of the Meteorological Panel and of the Scientific Section is Prof. Dr. Zafer Aslan of Istanbul Aydin University, Faculty of Engineering and Architecture. We wish Prof. Aslan all success in chairing the Meteorological Panel and Scientific Section!