



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

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REPORT ON THE ACTIVITIES OF THE INTERNATIONAL SCIENTIFIC
AND TECHNICAL ORGANISATION FOR SOARING FLIGHT (OSTIV)
for the period October 2011 to October 2012.
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 32th 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.

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**.

The Board decided to have a **General Conference** at the next IGC meeting in 2013 in The Netherlands.

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.

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 are:

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.

The 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 in 2013.

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 very much indebted to Dr. Trimmel!

The new chair(wo)man 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!