

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 Aeronautique Internationale, F.A.I.)

President: L.M.M. Boermans

Delft, January 12, 2010

International Gliding Commission

Meeting on 4 and 5 March, 2011 Lausanne, Switzerland

REPORT ON THE ACTIVITIES OF THE INTERNATIONAL SCIENTIFIC AND TECHNICAL ORGANISATION FOR SOARING FLIGHT (OSTIV) for the period March 1, 2010 to February 28, 2011. Loek M.M. Boermans, President of OSTIV.

XXX OSTIV Congress

The main event of the reporting period was the **XXX OSTIV Congress**, held from 28 Juli to 4 August 2010 in Szeged, Hungary, at the site of the 31th World Gliding Championships 2010.

At the **Opening Ceremony** of the Congress, in the briefing hall on the airfield, the following Awards were presented:

The **OSTIV Prize and Morelli Award** was awarded to Prof. A. Puck for "his significant contributions to the early development of fibreglass-reinforced-plastic sailplanes, especially covering stress and strength substantiation and fatigue".

The **OSTIV Special Prize and Morelli Award** was awarded to O. Liechti "for leading the team of experts and making significant contributions to the World Meteorological Organization / OSTIV publication *Weather Forecasting for Soaring Flight*".

The **Mertens Award** for the best student contribution at the congress was given to R. Baardman for his paper "Cumulus Humilis: Wireless mesh-networking for gliders".

The **OSTIV Diploma** for the best technical paper was given to L. Popelka, L. Zeleny, D. Simurda, M. Matejka for their paper presented at the XXIX OSTIV Congress in Lüsse, Germany 2008, titled "Wing-Body Interaction: Numerical Simulation, Wind-Tunnel and In-Flight Testing".

The **OSTIV Diploma** for the best meteorological paper was given to J. Dummann for his paper presented at the XXIX OSTIV Congress in Lüsse, Germany, 2008, titled "A Report on Glider Pilot Activities to Document Lee Wave-Events in Northern Germany and their Aims".

The keynote lecture titled " Aerodynamic Developments for Sailplanes at Delft University of Technology" was presented by Loek Boermans, Faculty of Aerospace Engineering of the TU Delft, The Netherlands.

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Phone: +31.15.278.6387 Fax : +31.15.278.3533 e-mail: l.m.m.boermans@lr.tudelft.nl During the next 5 days of the **Congress**, 25 papers of good quality were presented on aerodynamics, flight mechanics, dynamic soaring, winch launches, design and development, materials, fatigue, instruments, airworthiness requirements, rescue systems, 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 **General Conference**, on the last day of the Congress, the Board was re-elected.

The Board of OSTIV announced two new monetary Awards: the **Morelli Award** and the **Mertens Award**. The Morelli Award, sponsored by Morelli's son Henk-Peter in memory of his father Prof. Piero Morelli, is connected to the OSTIV Prize and Special Prize, like the (monetary) Klemperer Award is connected to the OSTIV Plaque. The Mertens Award is made available by the family Mertens in memory of Prof. Josef Mertens.

At the **Closing Dinner** the President of OSTIV expressed thanks to the Director of the World Gliding Championships Andras Zeno Gyongyosi for the support, to the OSTIV's Local Representative Imre Bano for the organisation of the excursion, and to Britta Schlenker for her indispensable help in organising the Congress to run smoothly.

For the first time OSTIV, in cooperation with the Soaring Society of America (SSA), organized an **OSTIV Speaker Track** at the SSA Convention, held from 28 to 30 January 2010 in Little Rock, Arkansas. During 3 days, 17 lectures were presented on a variety of technical, operational and meteorological subjects, and 2 panel discussions were held on safety and on OSTIV's activities.

The next **OSTIV Speaker Track** will be organized at the SSA Conference to be held from Januari 27 - 29, 2011 in Philadelphia, USA.

Panel meetings

The **Training and Safety Panel** (**TSP**), chaired by Ian Odaker, had a Flying Training Seminar and biannual meeting in August 2009 at Terlet, the Gliding Center of the Netherlands. There the panel took up the worries of the IGC President about the safety awareness of (competition) pilots, and elaborated the report "Pilot Safety in Gliding, Recommendations for Immediate and Long-term Safety Initiatives" presented by Ian Oldaker at the IGC meeting in 2009. This was followed up by report "Implementing a Safety Management Program for Gliding Organisations" presented by Ian Oldaker at the IGC meeting in March 2010.

The **Sailplane Development Panel** (**SDP**), chaired by Helmut Fendt had its annual meeting two days before the XXX OSTIV Congress, on 26 and 27 July 2010 in Szeged, Hungary. The SDP extensively discussed and finalized the document "Safety Pays" with proposals for competition rules to enhance flight safety. The document will be presented by Helmut Fendt at the IGC meeting in March 2011, Lausanne.

Other items on the agenda were: request to EASA on winch launch, aerotow and winch launch speeds, transponder/ADS-B issues, fire protection in powered gliders, motorglider propulsion recording, and the position of the SDP with respect to the new 13.5m Class.

The **next meetings** of the Training and Safety Panel and the Sailplane Development Panel, both separately and joined, will be on 19 and 20 September 2011 in Prague, Czech Republic.

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Phone: +31.15.278.6387 Fax: +31.15.278.3533 e-mail: l.m.m.boermans@lr.tudelft.nl The **Meteorological Panel (MP)**, chaired by Hermann Trimmel, had its last meeting from 25 to 27 September 2009 in Pfaffstätten near Vienna, Austria.

As mentioned before, member of the Meteorological Panel O. Liechti received the OSTIV Special Prize and Morelli Award for leading the team of experts and making significant contributions to the World Meteorological Organization / OSTIV publication "Weather Forecasting for Soaring Flight" published in August 2009. This publication in colour reflects the progress that has been achieved in numerical weather prediction and in the new interfaces between the predicted weather and the pilot to support pre-flight decision-making. The publication can be ordered at OSTIV and at WMO.

The **next meeting** of the Meteorological Panel will be from 23 to 25 September 2011 in Atalya, Turkey.

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