Organisation Scientifique et Technique Internationale du Vol `a Voile

(International Scientific and Technical Organization for Gliding)

Meteorological Panel Meeting

6-7 February 2015

ZHAW Zurich University of Applied Sciences

School of Engineering / Centre for Aviation

CH-8401 Winterthur, Switzerland

Coordination with

Istanbul Aydın University

Faculty of Engineering, ABMYO, Istanbul, Turkey

Supported by; Süleyman Demirel University, IAU Erasmus + Mobility Program and EURAS

WELCOME MESSAGE OF OSTIV PRESIDENT

Dear Members of the Meteorological Panel and Distinguished Guests!

Welcome to the meeting of OSTIV's Meteorological Panel, organized by its Chairman Prof. Dr. Zafer ASLAN and Local Chairman Prof. Dr. Bruno NEININGER, in Zurich University of Applied Sciences, School of Engineering, Centre for Aviation Winterthur, Switzerland!

For those who are not familiar with OSTIV a few words on this Organisation Scientifique et Technique Internationale du Vol a Voile (International Scientific and Technical Organization of Gliding). OSTIV is the advisory body of the International Gliding Commission (IGC) of the Federation Aeronautique Internationale (FAI). OSTIV is an International Affiliate Member of the FAI with voting right. OSTIV was founded in 1948 at Samedan/Switzerland and exists 67 years now!

The goal of OSTIV is “to encourage and coordinate internationally the science and technology of soaring, the development of the sailplane and its use in pure and applied research". The work in OSTIV is primarily done by 3 Panels: the Sailplane Development Panel (dealing with the sailplane), the Training and Safety Panel (dealing with the pilot) and the Meteorological Panel (dealing with the workspace of the sailplane with pilot). The members of the panels are volunteers from all over the world and specialized in a particular field of gliding or meteorology.

The work of the Sailplane Development Panel is focused on the development and safety of the sailplane. This panel works for instance continuously on updating the Airworthiness Requirements of Sailplanes and Motor-sailplanes code SC-22, legalized by the European Aviation Safety Agency EASA. The work of the second panel, the Training and Safety Panel, is focused on the safety of the pilot, like safe operating procedures, safety management for clubs and gliding organizations, organizing safety seminars etc. The work of your Meteorological panel is focused on the investigation and exploitation of the atmosphere, if possible by using the sailplane.

Every second year OSTIV organizes a Congress at the site and place of the World Gliding Championships, where papers are presented that are published, after a review process, 4 times a year in OSTIV's International Journal of Technical Soaring. And at the annual Convention of the Soaring Society of America, OSTIV organizes a Speaker Track of lectures.

The next list gives you an idea about the recent and coming activities of OSTIV:
The last meeting of the Meteorology Panel was on 20 and 21 September 2013 in the Training Center of the World Meteorological Organization in Alanya, Turkey.
The last meeting of the Sailplane Development Panel was from 28 and 29 July 2014 in Leszno, Poland, and the next meeting will be in October 2015 at the Wasserkuppe near Poppenhausen in Germany.
The last meeting of the Training and Safety Panel was from 25 to 27 October 2013 at the Gliding Center of the United Kingdom, Lasham and the next meeting will be in 2015, time and place to be decided yet.
The XXXII OSTIV Congress was from 30 July to 6 August 2014 at the site of the 33 World Gliding Championships in Leszno, Poland. The XXXIII OSTIV Congress will be at the site of

the 34 World Gliding Championships, either in August 2016 in Pociunai, Lithuania, or in December 2016 in Benalla, Australia (to be decide yet).

You see that there is a lot going on in OSTIV!

Dear friends of soaring, I wish you a very fruitful and pleasant meeting, for the benefit of the soaring community worldwide!

And I thank you all, and in particular Prof. Dr. Neininger and Prof. Aslan, for your efforts, contributions and attendance!

With kind regards,

Prof. Dr. Loek M. M. Boermans
OSTIV President

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OSTIV Meteorological Panel

The **VISION** of the Meteorological Panel is the worldwide exchange of ideas in the field of meteorology as a contribution to the development of air sports: gliding, hang gliding, paragliding and ballooning.

The **MISSION** of the Meteorological Panel is to bring together and coordinate the people and necessary elements to create a forum for education and development.

The **STRUCTURE** of the Meteorological Panel is designed to offer support and networking opportunities to meteorologists, pilots and other people, who are interested in meteorology for air sports, such as:

- contact to members of this group;
- regular meetings and seminars to discuss and exchange ideas of new methods, models and tools and to measure the atmosphere with gliders or motor gliders;
- working groups for specific projects.

OSTIV Meteorological Panel-2013 was held in Alanya WMO Regional Training Center (Antalya, Turkey) between 20th. and 21st. September, 2013. The panel was based and concentrates on "Soaring and Meteorology". It is concerned with the meteorological support for gliding. This panel is organized to help meteorological forecasters and pilot briefer respond to the requirements of glider flight operations carried by national, international leagues and aviation clubs. A technical description of gliding and soaring flight, the impact of weather on feasibility, timing, range of operations and safety in soaring will be discussed at this panel. The participants from a background in theoretical or experimental fields have been invited. Periodic OSTIV Meteorological Panels have been organized since 1996. OSTIV Meteorology Panel 2005: The Scientific Section and Meteorological Panel of OSTIV were held in Istanbul between 16th. and 18th.September, 2005. It was organized by Istanbul Aydın University (IAU, formerly Anadolu BIL Professional School of Higher Education; ABMYO) with the cooperation of Turkish Air Association (THK), Süleyman Demirel University (SDU), Istanbul Technical University (ITU), and Istanbul Commerce University (ITICU). OSTIV 2006 was held in Berlin (Germany). The following Panel; OSTIV 2007 was organized in St. Auban (France). The following one, OSTIV 2009 was held in Pfaffstaetten near Vienna, Austria. OSTIV 2011 was held in Antalya in September, 2011. It was organized in Antalya (Turkey) with the co-operation of THK, ITU, IAU and Governmental Meteorological Organization (DMI).

TOPICS

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 as related to soaring flight:
Mesoscale and small convective, baroclinic or orographically induced phenomena, new observations; measurements or analysis of convergence lines, cellular patterns, shear structures, standing and moving waves, short period cycles, turbulence, boundary layer in complex terrain, analytical techniques of delineating thermal and meso-scale structures from routine or experimental ground or flight data or from remote sensors, modeling of thermals, meso-scale or micro-scale structures, micro-lights

Miscellaneous