



*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



Zurich University  
of Applied Sciences

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



## PROGRAMME

### Friday 6 February

- 12:15 – 13:15 h**      **Lunch in mensa**, for those who arrive before 12 h, or join us in the Mensa (building TB, first floor), offered by the Centre for Aviation; details see separate instructions.
- 13:15 – 13:30 h**      Arrival of the participants (venue see separate instructions)
- 13:30 - 14:00 h**      **Opening Speeches by**  
Zafer ASLAN, *Chair, OSITV MET Panel*  
Bruno NEININGER and Tamara QVIST-SØRENSEN, local organizers  
Michel GUILLAUME, *Head of the Centre for Aviation, ZHAW*  
Loek M. M. BOERMANS, *President, OSTIV*
- 14:00 – 15:10 h**      **Session I-** Atmospheric Convection, Mountain Waves, Soaring  
  
**Chair(s):** B. NEININGER/Z. ASLAN
- René HEISE**              The Himalaya Expedition, lee-waves and wave turbulence,  
*Geoinfozentrum, German Air Force, [Rene.Heise@T-Online.de](mailto:Rene.Heise@T-Online.de)*
- Karl REGE**              An application with Google Glass for Para-gliders,  
*Institute for IT, ZHAW, [rege@zhaw.ch](mailto:rege@zhaw.ch)*

## POSTER SESSIONS

- 15:10- 15:30 h**      Coffee Break in Mensa / Group Photo
- 15:30 – 17:00 h**      **Session II-** Modeling, Training Programs for Soaring  
  
**Chair(s):** K. REGE/Y. S. UNAL
- E. (Ward) HINDMAN and **L. M. M. BOERMANS**: Announcing the OSTIV Congress Best Student Paper Awards, *City College of New York , TU-Delft*
- M. HAGEN**              The Soaring Meteorology Course of the University of Munich,  
*Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Physik der Atmosphäre Wessling, Germany, [martin.hagen@dlr.de](mailto:martin.hagen@dlr.de)*
- B. NEININGER**          AlpTherm\_2 – a new version of a Lagrangian convection model for global use, *Zurich University of Applied Sciences, Winterthur, Switzerland, [bruno.neininger@zhaw.ch](mailto:bruno.neininger@zhaw.ch)*
- J. SCHMIDLI**              An introduction to the high resolution models COSMO-2 and COSMO-1 and their potential for the forecast of convection, *ETH: Swiss Federal Institute of Technology, Zurich, Switzerland, [jschmidli@env.ethz.ch](mailto:jschmidli@env.ethz.ch)*

**17:00-18:00 h**      **Session III-** Modeling, Group Discussion/ Miscellaneous/

**Chair(s):** R. HEISE/ Z. ASLAN

**J. OBERSON**      The convective boundary layer (CBL), a now well understood concept, is necessary to the new approach of flight aerology  
[www.soaringmeteo.ch](http://www.soaringmeteo.ch)

**S. S. MENTES**, E. TAN, S. N. KORKUSUZ and Y. S. UNAL: Simulation of the Mesoscale Conditions of a Waterspout Event Occurred in Istanbul Turkey by using the WRF Model, *Istanbul Technical University, Aeronautics and Astronautics Faculty, Department of Meteorological Engineering, Maslak, 34469, Istanbul, Turkey*, [smentes@itu.edu.tr](mailto:smentes@itu.edu.tr)

**A. CAKIN**, İ. CEYHAN, V. YAVUZ, E. T. ÖZDEMİR, C. TEMİZ and A. DENİZ: Investigation of the Effect of Snowfall on the Flights in Turkey, *Istanbul Technical University, Faculty of Aeronautics and Astronautics, Department of Meteorological Engineering, Maslak, 34469 Istanbul – Turkey, General Directorate of Meteorology, Atatürk Airport Meteorology Office, Yeşilköy, Istanbul, Turkey*, [cakina@itu.edu.tr](mailto:cakina@itu.edu.tr)

**Y. S. UNAL** and M. ACAR: Improving the Forecast of Tuzla Waterspout in Istanbul by 3DVAR Radar Data Assimilation, *Department of Meteorology, Istanbul Technical University, Istanbul, Turkey, İO Çevre Çözümleri Co. Istanbul Technical University Technopark, Istanbul, Turkey*, [sunal@itu.edu.tr](mailto:sunal@itu.edu.tr)

**ANNOUNCEMENT:** Call for papers to be published in “Technical Soaring, An International Journal, <http://journals.sfu.ca/ts/index.php/ts>

**19:00 h Dinner (partly offered by the Centre for Aviation)**

**Saturday 7, February**

**09:45 – 10:00 h** Arrival of the participants  
(train arrivals from Zurich at 09:33 h and 09:35 h)

**10:00 – 11:15 h** **Session IV** Panel

**Chair(s):** J. WEST/ Z. ASLAN

- An Outline of the Solar Impulse Project  
(Bruno is a Member of the Core Team; René is a Consultant)
- Micro-lift (Topic highlighted by Prof. Dr. P. Morelli),  
Rayleigh Benard Convection (Theory of it)
- Archaeopteryx - an ultralight glider, using microlift,  
developed in Winterthur, *Prof. Dr. Hanfried Hesselbarth, ZHAW*
- Renewing of OSTIV-WMO Handbook and definition of Renewable  
Committee Members,
- Mission and Vision of OSTIV-METEOROLGY PANEL
- Discussions about the aims and the future of the  
Meteorological Panel

**POSTER SESSIONS**

**11:15 – 11:40 h** Coffee Break /Group Photo

**11:40 – 12:20 h** **Session V** Mathematical Modeling and Computer Simulation  
of Soaring Problems

**Chair(s):** M. HAGEN/Z. ASLAN

**E. T. ÖZDEMİR** and A. DENİZ: The Implications of Dust Plume on Aviation in Turkey: A  
Case Study of Dust Plume on 7 and 8 April, 2013, *Istanbul Technical  
University, Department of Meteorology, Maslak, Istanbul, Turkey,  
General Directorate of Meteorology, Ataturk Airport Meteorology  
Office, Yeşilköy, Istanbul, Turkey.*

**J. OBERSON** SoarGFS, the output of the famous GFS model adapted to soaring  
prediction around the world, [www.soaringmeteo.ch](http://www.soaringmeteo.ch)

**H. BALTACI**, T. KINDAP, A. ÜNAL, M. KARACA, “Detection of volcanic ash using  
multispectral satellite data. *Istanbul Technical University, Eurasia  
Institute of Earth Sciences, Maslak 34469, Istanbul, Turkey,*  
[baltacih@hotmail.com](mailto:baltacih@hotmail.com)

**12:20 -13:30 h** **Lunch (in the nearby city due to closed mensa, individual payment)**

**13:30 –14:30 h**      **Session VI**  
Climate Change, Mathematical Modeling of Aeronautical Problems

**Chair(s):** I. CHLEBOVEC/B. NEININGER

**J. HERD**              Can You Read the Wave? *Minden, Nevada, USA*, [2n6npw@gmail.com](mailto:2n6npw@gmail.com)

V. YAVUZ, C. TEMİZ, **E. T. ÖZDEMİR** AND A. DENİZ: Squall Line over Antalya,  
*Istanbul Technical University, Aeronautics and Astronautics Faculty,*  
*Department of Meteorology, Maslak, 34469, Istanbul, General*  
*Directorate of Meteorology, Atatürk Airport Meteorology Office,*  
*Yeşilköy, Istanbul, Turkey*, [yavuzv@itu.edu.tr](mailto:yavuzv@itu.edu.tr)

**F. DÖKMEN** and Z. ASLAN, “The Effects of Climate Change on Evaporation and  
Evapotranspiration and Soaring, *Kocaeli University, Vocational School*  
*of Food & Agricultural School, Campus of Arslanbey, 41285*  
*Arslanbey-Kartepe, Kocaeli-Türkiye*, [f\\_dokmen@hotmail.com](mailto:f_dokmen@hotmail.com) &  
[fun@kocaeli.edu.tr](mailto:fun@kocaeli.edu.tr), *Istanbul Aydın University, Faculty of Engineering,*  
*Department of Computer, 34590 Istanbul-Türkiye*,  
[zaferaslan@aydin.edu.tr](mailto:zaferaslan@aydin.edu.tr)

E. TAN, S. S. MENTES, **Z. ASLAN**, S. TOPCU AND N. GÖKTEPE: High Resolution  
Simulation of a Microburst Event occurred in Ankara Turkey by using  
the WRF Model, *Istanbul Technical University, Aeronautics and*  
*Astronautics Faculty, Department of Meteorological Engineering,*  
*Maslak, 34469, Istanbul, Turkey, Istanbul Aydın University, Faculty of*  
*Engineering, Department of Computer Engineering, Istanbul, Turkey*,  
[zaferaslan@aydin.edu.tr](mailto:zaferaslan@aydin.edu.tr)

## POSTER SESSIONS

**14:30 – 14:55 h**      Coffee Break

**14:55 - 16:00 h. Session VII Discussion**

**Chair(s):** L.M.BOERMANS/ B. NEININGER/ Z. ASLAN

- Establishment of Executive (Sub) Committee  
of OSTIV MET PANEL
- Next MET PANEL (2017)

**16:00 - 16:25 h**      **Session VIII Closing**

**16:30 – 17:00 h**      Information about the Centre of Aviation, with a short visit of the  
Simulator, Wind Tunnel, and other infrastructure (optional)

**20:00 h**      **Dinner (optional, individual payment, in Zurich or Winterthur, tbd)**

## Technical Soaring

*Technical Soaring* documents recent advances in the science, technology and operations of motorless aviation, [journals.sfu.ca/ts/](http://journals.sfu.ca/ts/)

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<b><u>Contact Addresses for the Meeting</u></b>
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**Prof. Dr. Zafer ASLAN**

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and OSTIV Scientific Section  
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