

17th Alpine Glaciology Meeting - GRENOBLE

This meeting is associated to the annual “*Société Hydrotechnique de France*” meeting (SHF), which is held in Grenoble every year.

Talks: 15 minutes for each presentation and 5 minutes of questions. Please upload your talk on the computer before the scheduled session. Feel free to write an extended abstract and to deposit your text in the room the day of the meeting.

Posters: there will be a poster session, with a 1 minute time slot to present your poster.

Thursday, 14th February 2013 :

9h20 : Welcome

Session 1: glacier mass balance : observations and processes

(Chairman: M. Lüthi ?)

* 9h30: **Mass balance of glacier d'Ossoue, Pyrenees, France, 1924-2012.** *Marti R., Ribière O., Houet T., Gascoin S., Laffly D., René P.*

* 9h50: **Five year mass balance survey of a small polar glacier (2008-2012, Austre Lovénbreen, Spitsbergen, 79°N)** *Friedt J.M., Tolle F., Bernard E., Marlin C., Griselin M.*

* 10h10: **Retrieving bulk sensible heat transfer coefficient over melting ice using melt energy.** *Thibert E.*

10h30 – 10h50: **Coffee break**

* 10h50: **Determination of the degree-day factor by *in situ* measurements on the Austre Lovén glacier (Spitsbergen, 79°N),** *Griselin M., Tolle F., Friedt J.M., Bernard E., Marlin C.*

Session 2: Climate change/glacier change

(Chairman: L. Braun)

*11h10: **Secular atmospheric temperature changes at very high elevation in the Mont Blanc area from englacial temperatures,** *Gilbert A. and Vincent C.*

*11h30 : **Changes in glacier equilibrium-line altitude (ELA) measured by remote sensing in the western Alps over the 1984-2010 period.** *Rabatel A., Letréguilly A., Dedieu J.P*

*11h50 : **A 1600 year history of Alpine glacier equilibrium line altitude inferred from glacier length records, and the relation to summer temperature and radiation.** *Lüthi M.*

12h10 – 14h00: **Lunch time**

- * 14h00: **Analysis of glacial retreat in the French Alps since the end of the 1960s through the evolution of the topographical and glaciological parameters of the glaciers.** *Gardent M., Rabatel A., Deline P. and Schoeneich P.*
- * 14h20: **An estimate of the intrinsic uncertainty of volume-area scaling.** *Farinotti D.*

Session 3: Dynamic behavior/natural hazards

(Chairman: P. Deline)

- * 14h40: **Instabilities on Alpine temperate glaciers: new insights arising from a numerical modelling study performed on Allalingsletscher (Valais, Switzerland).** *Faillettaz J. and Funk M.*
- * 15h00: **Dynamics of subglacial cavities and subglacial erosion.** *Walter F.*
- * 15h20: **Seismic activity and surface motion on a potentially unstable steep temperate glacier.** *Dalban P.*
- * 15h40: **Velocity estimation of Grandes Jorasses glacier in the framework of GlaRiskAlp project.** *Lucianaz C., Diotri F., Vagliasindi M.*

16h00 : **Poster presentations** (1 minute for each poster)

16h20-17h20: **Coffee break and poster session**

Session 4 : Hydrology

(Chairman : M. Funk ?)

- * 17h20: **Variations in the water balance terms of the high mountain basin of Vernagtferner, Austrian Alps, for the years 1895-2011.** *Braun L.*
- * 17h40: **Apport d'eau lié à la fonte nivale et restitution en tête de bassin versant à l'échelle locale : exemple du Lignon du Forez, Massif Central, France** (*temporary title, the talk will be given in english*). *Bouron G.*
- * 18h00 : **Un modèle glacio-hydrologique conceptuel dans les bassins versants de montagnes** (*temporary title, the talk will be given in english*) *Gsell P.S.*
- * 18h20 : **Estimation des stoks de neige et prevision des apports par fusion nivale** (*temporary title, the talk will be given in english*). *Dommanget E.*

19H30 : **Dinner – Grenoble downtown**

Friday, 15th February 2013

Session 5: Permafrost/geomorphology/ debris cover

(Chairman: C. Smiraglia ?)

- * 9h00: **Modelling debris-cover evolution.** *Leclercq, P.*
- * 9h20: **Geomorphology and dynamics of supraglacial debris covers in the Western Alps** *P. Deline, M. Gardent, M. P. Kirkbride, N. Perrel*
- * 9h40: **Heterogeneous ground ice distribution in glacial and periglacial sedimentary environments and its influence on current geomorphological dynamics: geoelectrical tomography results in the Rognes sector (Mont-Blanc, France).** *Bosson J.B.*
- * 10h00: **Permafrost temperature regimes in boreholes in the French Alps – three years of monitoring 2009-2012.** *Schoeneich P., Krysiecki J.M., Echelard T., Deline P., Magnin M., Ravanel L., Bodin X., Lorier L., Mingrat L., Le Roux O.*

10h20: Coffee break

- * 10h50: **Progress and changes in the IGS in the past year.** *Magnússon, Magnús Már*
- * 11h10: **Permafrost investigation in the Mont Banc massif steep rock walls.** *F Magnin et al.*
- * 11h30: **Le comportement physique et mécanique des dépôts glaciaires dans les secteurs récemment déglacés.** *(temporary title, the talk will be given in english) A. Arato¹, A.M. Ferrero², G. Filippa³, D. Franco¹, A. Godio¹, M.R. Migliazza², U. Morra di Cella³, P. Pogliotti³, L. Sambuelli¹, A. Théodule⁴*

Session 6: Snow processes

(Chairman: D. Richard)

- * 11h50: **Dry and wet snow analysis in Alpine regions using Radarsat-2 full polarimetry data. Comparison with *in situ* measurements .** *Dedieu J.P., Mathieu J., Durand Y., Gottardi F.*
- * 12h10: **Development of a snowpack model to study the impact of black carbon.** *JACOBI, H.W.*
- * 12h30: **Simulation de la rupture fragile de la neige à partir d'images de micro-tomographie.** *(temporary title, the talk will be given in english) Hagemuller P., Theile T., Schneebeli M.*