

# 16th Alpine Glaciology Meeting, ETH Zürich, Switzerland

## Oral Session Program

### February 2

09:30 - 09:40	<b>Welcome</b>		
09:40 - 10:00	Andreas Linsbauer	Comparing different methods to model scenarios of future glacier change for the entire Swiss Alps	c
10:00 - 10:20	Roger Braithwaite	Sensitivity of Alpine glacier mass balance to air temperature changes in and around the Alps.	b, c
10:20 - 10:40	Ludwig Braun	Review of methods to determine the glacier meltwater contribution in mountain rivers	b, c
10:40 - 11:00	Raymond Le Bris	A semi-automatic method to create central glacier flow lines: A pilot study with Alaskan glaciers	c
11:00 - 11:30	<b>Coffee Break</b>		
11:30 - 11:50	Michael Zemp	Latest finding and recent news from the internationally coordinated glacier monitoring	b, c
11:50 - 12:10	Ben Brock	A 50 year record of winter melting events on glaciers in southern Chile	b
12:10 - 12:30	Christian Huggel	Climate-related, complex risks from deglaciated high mountains	g
12:30 - 12:50	Magnús Már Magnússon	The IGS, a progress report	x
12:50 - 14:20	<b>Lunch Break</b>		
14:20 - 14:40	G.Hilmar Gudmundsson	Stable grounding lines on retrograde slopes	i
14:40 - 15:00	Claudia Ryser	Subglacial controls of the short term flow dynamics at the margins of the Greenland Ice Sheet	d, e
15:00 - 15:20	Fabian Walter	Seismological Monitoring of Ice Dynamics in Greenland's Ablation Zone	d
15:20 - 15:40	Jerome Faillettaz	Prediction of alpine glacier sliding instabilities: a new hope	j
15:40 - 16:10	<b>Coffee Break</b>		
16:10 - 16:30	Mohd Farooq Azam	From balance to imbalance: a shift in the dynamic behaviour of Chhota Shigri Glacier (Western Himalaya, India)	b, c, d
16:30 - 16:50	Takayuki Nuimura	Elevation changes of glaciers revealed by multi-temporal digital elevation models calibrated by GPS survey in the Khumbu region, Nepal Himalayas, 1992-2008	b
16:50 - 17:10	Giovanni Kappenberger	Glacier observations in Nepal	c
17:10 - 17:30	<b>Poster Presentation Session</b>		
17:30 - 19:00	<b>Poster Session (with drinks)</b>		
19:45 - 21:30	<b>Banquet / Dinner (Restaurant Zeughauskeller, at Paradeplatz)</b>		

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### February 3

09:00 - 09:20	Tim Reid	Modelling and measuring the interactions between snow, vegetation and the atmosphere in the sub-Arctic	a
09:20 - 09:40	Thorsten Bartels-Rausch	Chemistry of Mercury in Snow	a
09:40 - 10:00	Lukasz Stachnik	Relationship between water physicochemical properties and ablation rate as an indicator of chemical processes in the glaciated basin (Werenskioldbreenm, SW Spitsbergen)	e
10:00 - 10:20	Marco Carenzo	Assessing the influence of debris cover on Haut Glacier d'Arolla using a distributed energy-balance model.	b, k
10:20 - 10:50	<b>Coffee Break</b>		
10:50 - 11:10	Francis Gauthier	Ice wall growth and the probability of falling ice blocks along the main transportation corridors of northern Gaspésie, Quebec, Canada.	g
11:10 - 11:30	Pierre Dalban	Icequake sources location on Triftgletscher (Switzerland) using different velocity models.	d, g
11:30 - 11:50	A. Gilbert	The thermal regime of Tête Rousse Glacier (Mont Blanc range): consequences for water storage and outburst flood hazards	d, g
11:50 - 12:00	<b>Short Break</b>		
12:00 - 12:20	Olivier Gagliardini	Estimating the risk of glacier cavity collapse during artificial drainage: the case of Tête Rousse Glacier	d, g, j
12:20 - 12:40	Arne Keller	Measurement of strain rate components in a glacier with embedded inclinometers	d, i
12:40 - 13:00	Riccardo Scotti	Length and surface variations of Chaalati, Adishi and Tviberi glaciers from LIA to the present (Enguri river basin, Georgia, Caucasus)	c
13:00 - 13:05	<b>Closing</b>		

### Topics

- a processes in the snow cover
- b glacier mass balance processes and observations
- c glacier change related to climate change
- d ice dynamics and glacier flow processes
- e subglacial processes
- f observations and processes in permafrost
- g natural hazards and their mitigation
- h impacts of cryospheric changes
- i theoretical/mathematical advances
- j progress in numerical models
- k processes in glacial and periglacial debris