

21. Alpine Glaciology Meeting, Zürich, 2./3. February 2017

Session programme (Version 1.1, 2017.02.02)

All **talks** are given in the in the **ETH Zürich main building** in Room **HG E 1.1** located in the "E" floor (entrance level).

All **posters** are in the **hallway** next to the conference room.

Day 1, 2. February 2017

09:30–09:40	Welcome Address
09:40–10:50	Talks
10:50–11:20	Break
11:20–12:30	Talks
12:28–12:30	Announcements
12:30–14:00	Lunch
14:00–15:25	Talks
15:27–15:33	Future meeting announcements, etc.
15:33–15:35	Announcements
15:35–15:50	Break
15:50–17:30	Poster Session ⇒ see the poster session programme on pages 4 and 5
19:00–21:00	Banquet ⇒ Dinner at Restaurant Linde Oberstrass

Day 2, 3. February 2017

08:30–10:15	Talks
10:15–10:45	Break / Announcements
10:45–12:30	Talks
12:30–14:00	Lunch
14:00–14:50	Talks
14:50–15:00	Short Break
15:00–15:50	Talks
15:50–15:55	Closing Address

All meeting information is at <http://people.ee.ethz.ch/~glacier/agm2017/index.html>

Programme: Oral Presentation: day 1 (2. February 2017)

09:30–09:40	Welcome Address
09:40–09:57	Martina di Rita Univ. Rome, "La Sapienza", Italy <i>Exploiting Sentinel-1 SAR satellite data for glacier surface velocity field measurements: the Northern Patagonian Ice Field case study</i>
09:57–10:14	Saurabh Vijay FAU, Erlangen-Nürnberg, Germany <i>Glacier elevation changes in the Karakoram-Himalaya region derived from TanDEM-X and SRTM digital elevation models</i>
10:14–10:31	Fanny Brun IGE, Univ. Grenoble Alpes, France <i>Exhaustive High Mountain Asia glacier mass balance from ASTER stereo imagery (2000-2016)</i>
10:31–10:48	Matthias Huss VAW, ETH Zurich, Switzerland <i>Glacier Monitoring in Switzerland (GLAMOS)</i>
10:50–11:20	Break
11:20–11:37	Roberto Sergio Azzoni DST, Univ. Milano, Italy <i>Temporal and spatial evolution of supraglacial debris on Ortles-Cevedale glaciers (Central Italian Alps)</i>
11:37–11:54	Carlo Licciulli IUP, Uni Heidelberg, Germany <i>Supplementing ice core time series at Colle Gnifetti with a 3D full Stokes ice flow model</i>
11:54–12:11	Helene Hoffmann IUP, Uni Heidelberg, Germany <i>Reporting on new insights from a high Alpine ice core (Colle Gnifetti, Swiss Alps)</i>
12:11–12:28	Olaf Eisen Alfred Wegener Institut, Germany <i>Glaciological constraints for the search for the Oldest Ice - where are we now?</i>
12:28–12:30	Announcements
12:30–14:00	Lunch
14:00–14:17	Michael Zemp WGMS, Univ. Zurich, Switzerland <i>Tapping the full potential of geodetic glacier change assessment with air and space borne sensors</i>
14:17–14:34	Davide Fugazza DST, Univ. Milano, Italy <i>Combination of UAV & terrestrial photogrammetry and TLS to assess rapid glacier evolution and glacier hazards</i>
14:34–14:51	Emmanuel Thibert ETNA-Irstea, Univ. Grenoble Alpes, France <i>A 7-decade reconstruction of surface energy balance at Sarennes Glacier (French Alps).</i>
14:51–15:08	Christian Vincent LGGE, University of Grenoble, France <i>Common climatic signal from glaciers in the Alps over the last 50 years</i>
15:08–15:25	Samuel Nussbaumer WGMS, Univ. Zurich, Switzerland <i>Evolution of the Lower Grindelwald glacier (Bernese Alps, Switzerland): from the glory of ice during the Little Ice Age to a landscape of ruins of ice</i>
15:27–15:33	Future meeting announcements, etc.
15:33–15:35	Announcements
15:35–15:50	Break
15:50–17:30	Poster Session ⇒ see the poster session programme on pages 4 and 5
19:00–21:00	Banquet ⇒ Dinner at Restaurant Linde Oberstrass

Programme: Oral Presentation: day 2 (3. February 2017)

08:30–08:47	Magnus Magnusson International Glaciological Society, IGS <i>IGS and the first year of Gold Open Access</i>
08:47–09:04	Kathrin Naegeli Univ. Fribourg, Switzerland <i>Mass balance sensitivity of mountain glaciers to changes in bare-ice albedo</i>
09:04–09:21	Harry Zekollari DGGF, VUB Brussel, Belgium <i>Evolution of the world's northernmost ice cap, Hans Tausen Iskappe (Greenland): from past to future</i>
09:21–09:38	Fabian Walter VAW, ETH Zurich, Switzerland <i>Cryoseismology</i>
09:38–09:55	Fabian Lindner VAW, ETH Zurich, Switzerland <i>Seismic monitoring of the 2016 outburst flood of Lac des Faverges on Glacier de la Plaine Morte</i>
09:55–10:12	Amandine Sergeant Institut de Physique du Globe de Paris, France <i>Numerical modelling of the force responsible for glacial earthquakes and ice-volume discharge estimation from calving-induced seismic records</i>
10:12–10:45	Break / Announcements
10:45–11:02	Yuri Prohaska VAW, ETH Zurich, Switzerland <i>Laboratory Experiment of Englacial R-Channels</i>
11:02–11:19	Ian Delaney VAW, ETH Zurich, Switzerland <i>Subglacial sediment yield: current measurements and expected changes</i>
11:19–11:36	Colin R. Meyer SEAS, Harvard, USA <i>Interaction between englacial temperate ice and a subglacial hydrologic system</i>
11:36–11:53	Lisbeth Langhammer EEG, ETH Zürich, Switzerland <i>Ground-penetrating radar antenna orientation effects on temperate mountain glaciers</i>
11:53–12:10	Vanessa Round WSL, Switzerland <i>Characterisation and monitoring of Kyagar Glacier surge dynamics and lake outburst events using remote sensing</i>
12:10–12:27	Francesca Pittino DISAT, Univ. Milano-Bicocca, Italy <i>Biodegradation of pollutants in cryoconite holes on Alpine glaciers</i>
12:30–14:00	Lunch
14:00–14:17	Fabrizio Troilo FondMS, Valle Aosta, Italy <i>The PrévRiskHauteMontagne Project: from knowledge to resilience</i>
14:17–14:34	Rémy Mercenier 3G, Univ. Zurich, Switzerland <i>Using continuum damage mechanics to simulate ice break off at the glacier front</i>
14:34–14:51	Julien Seguinot VAW, ETH Zurich, Switzerland <i>Modelling last glacial cycle ice dynamics in the Alps</i>
14:51–15:08	Frank Paul 3G, Univ. Zurich, Switzerland <i>Hispar Glacier on the run</i>
15:08–15:15	Closing Address

Poster Presentations 1: both days

Giulia Mazzotti SLF/WSL, Davos, Switzerland

Sensitivity of an energy-balance snow cover: model to process representation

Thorsten Seehaus FAU, Erlangen-Nürnberg, Germany

Assessment of essential climate variables: Observation of glacier changes in the tropical Andes

Johannes Landmann VAW, ETH Zurich, Switzerland

Towards an operational platform for glacier mass balance monitoring

Stephan Galos ACINN, Innsbruck, Austria

Uncertainties in seasonal mass balances of alpine glaciers: a case study at Langenferner / Vedretta Lunga, Italian Eastern Alps

Alexander Raphael Groos GIUB, Univ. Bern, Switzerland

glacierSMBM: A new package for glacier surface mass balance modelling in R

Lino Schmid SCCER-SoE, ETH Zurich, Switzerland

Towards a ice thickness inventory of the glaciers in Switzerland

Rebecca Gugerli Univ. Fribourg, Switzerland

Using a Cosmic Ray Sensor to Estimate the Snow Water Equivalent on a Glacier

Alvaro Ayala IFU, ETH Zurich, Switzerland

The role of surface sublimation in the summer mass balance of glaciers in the subtropical semiarid Andes

Franz Goerlich 3G, Univ. Zurich, Switzerland

Negative geodetic glacier mass balances in the Ak-Shirak range (Kyrgyzstan) between 1960s and 70s derived from Corona and Hexagon reconnaissance imagery

Charalampos Charalampidis BAdW, Munich, Germany

Topographic influence on incoming solar radiation, and thus glacial melt, across the Alps: example of Vernagtferner and Morteratschgletscher

Jakob Balassa IGF/ÖAW, Wien, Austria

Decadal changes of debris cover and it's potential impact on the mass balance time series of Jamtalferner (Silvretta, Austria)

Antonella Senese DST, Univ. Milano, Italy

Inventory of glaciers and glacial lakes of the Central Karakoram National Park

Anna Masseroli Dip. Scienze della Terra, Unimi, Italy

Environmental change and soil development on the proglacial area of Forni glacier (Central Italian Alps)

Simone Schauwecker 3G, Univ. Zurich, Switzerland

The freezing level in the tropical Andes, Peru: an indicator for present and future glacier extents

Alessio Golzio DST, Univ. Milano, Italy

Precipitations in the central European Alps: trends, changes and extreme events during the twentieth century in the context of climate change.

Philipp Rastner 3G, Univ. Zurich, Switzerland

New opportunities for creating glacier inventories in the Russian Arctic

Michel Isabellon DISAFA, Univ. Torino, Italy

Glacier area changes in north-western Alps using Sentinel-2A images

Giovanni Baccolo Univ. Milano-Bicocca, Italy

Cryoconite composition: radioecological and geochemical perspectives

Poster Presentations 2: both days

Paolo Silvestri Trofarello TO, Italy

The evolution of the Mont Tabel Glacier over the last 150 years

Biagio Di Mauro Univ. Milano-Bicocca, Milan

A novel hyperspectral system for high resolution imaging of ice cores

Andreas Vieli 3G, Univ. Zurich, Switzerland

A dynamic perspective of the long-term evolution of a small ice cap in Greenland from numerical flow modelling

Aihong Xie State Key Laboratory, Lanzhou, China

Changes in daily climate extremes in Antarctica and their connection to the large scale atmospheric circulation in the last three decades

William Higson Univ. Sheffield, UK

Understanding how Valley-Glacier Overdeepenings affect seasonal glacier dynamics.

Marta Chiarle CNR-IRPI, Turin, Italy

A new approach to measuring temperature at high-elevation sites: the RiST project

Roberto Sergio Azzoni DST, Univ. Milano, Italy

Recent structural evolution of Forni Glacier tongue (Ortles-Cevedale Group, Central Italian Alps)

Josef Lier IUP, Univ. Heidelberg, Germany

Estimating heat sources due to surface meltwater refreezing for improved 3D flow modelling at Colle Gnifetti, Swiss-Italian Alps.

Michael Imhof VAW, ETH Zurich, Switzerland

Modeled and reconstructed ice thickness of the Rhine Glacier during the Last Glacial Maximum.

Tobias Bolch 3G, Univ. Zurich, Switzerland

Surge-type glaciers in the Tien Shan (Central Asia)

Simon Förster VAW, ETH Zurich, Switzerland

Demystifying the end of the Little Ice Age: first tests simulating the Rhône Glacier with Úa

Mauro Werder VAW, ETH Zurich, Switzerland

Bayesian inference of ice thicknesses

Inigo Irarrazaval Univ. Lausanne, Switzerland

Geostatistical inversion of the subglacial drainage system

Paolo Pogliotti ARPAVdA, Valle d'Aosta Italy

Multidisciplinary monitoring of the Gran Sometta rock glacier, Valtournenche, Italy

Alessandro Cicoira 3G, Univ. Zurich, Switzerland

Influences of external temperature forcing on rock glacier dynamics.

Lukas Preiswerk VAW, ETH Zurich, Switzerland

Icefalls from the Eiger West Face monitored by Interferometric Radar and Seismometers

Kristýna Falatkova Charles University, Prague, Czech Rep.

Impact of glacier retreat on its forefield: formation and development of glacial lakes

Daniel Thorlaksson ACINN, Innsbruck, Austria

Distributed modeling of glacier ice thickness via limited input data

Giovanni Kappenberger ex Meteoswiss, Switzerland

Glaciological observations in Nepal shows higher accumulations above 6000m in the last 15 years: The reason of the exceptional earthquake ice-avalanche of Langtang
