

# Walter Steinkogler

## Publications

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### Peer-reviewed

*Granulation of snow: Experiments and discrete element modeling*, Steinkogler, W., Gaume, J., Löwe, H., Sovilla, B., Lehning, M.; 2014; submitted.

*Permafrost distribution modeling with the energy balance model Alpine3D in the Eastern Italian Alps*, Steinkogler, W., Bavay, M., Crepaz, A., Völksch, I., Lehning, M.; 2014; in review.

*Thermal energy in dry snow avalanches*, Steinkogler, W., Sovilla, B., Lehning, M.; 2014; submitted.

Weblink *Evaluation of a snow avalanche possibly triggered by a local earthquake at Vallée de la Sionne, Switzerland*, Pérez-Guillén, C., Tapia, M., Furdara, G., Suriñach, E., McElwaine, J.N., Steinkogler, W., Hiller, M.; 2014; Cold Reg. Sci. Technol.

Weblink *Influence of snow-cover properties on avalanche dynamics*, Steinkogler, W., Sovilla, B., Lehning, M.; 2014; Cold Reg. Sci. Technol. 97: 121-131.

Weblink *Mapping frequencies of icing on structures in Switzerland.*, Grünewald, T., Dierer, S., Cattin, R., Steiner, P., Steinkogler, W., Fundel, F., Lehning, M.; 2012; J. Wind Eng. Ind. Aerodyn. 107-108: 76-82.

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### Conference proceedings and abstracts

2014:

ISSW 2014 *Linking snow cover properties and avalanche dynamics*, Steinkogler, W., Sovilla, B., Lehning, M.; 2014; In Proceedings of the International Snow Science Workshop ISSW, Banff, Canada.

ISSW 2014 *Granulation of snow: Experiments and discrete element modeling*, Steinkogler, W., Gaume, J., Löwe, H., Sovilla, B., Lehning, M.; 2014; In Proceedings of the International Snow Science Workshop ISSW, Banff, Canada.

ISSW 2014 *Modeling small and frequent avalanches*, Dreier, L., Bühler, Y., Steinkogler, W., Feistl, T., Bartelt, P.; 2014; In Proceedings of the International Snow Science Workshop ISSW, Banff, Canada.

ISSW 2014 *Livigno (Italy) Freeride Project*, Monti, F., Steinkogler, W., Mitterer, C.; 2014; In Proceedings of the International Snow Science Workshop ISSW, Banff, Canada.

- FA 2014 *An integrated approach for backcountry snow sports safety and avalanche risk management.*, Monti, F., Steinkogler, W., Mitterer, C., Pozzi, A.; 2014; Forum Alpinum, Brescia, Italy.
- FA 2014 *Bringing avalanche forecasting into the 21st century: a combination of models and weather stations.*, Monti, F., Bellaire, S., Mitterer, C., Steinkogler, W., Pozzi, A.; 2014; Forum Alpinum, Brescia, Italy.
- GF 2014 *Linking snow cover properties and avalanche dynamics.*, Steinkogler, W., Sovilla, B., Lehning, M.; 2014; Graubünden forscht: Young Scientists in Contest, Davos, Switzerland.
- GF 2014 *Granulation of snow: Experiments and discrete element modeling.*, Steinkogler, W., Gaume, J., Löwe, H., Sovilla, B., Lehning, M.; 2014; Graubünden forscht: Young Scientists in Contest, Davos, Switzerland.
- EUCOP 2014 *4D Permafrost modeling with Alpine3D*, Steinkogler, W., Bavay, M., Lehning, M.; 2014; 4th European Conference on Permafrost, Evora, Portugal.

### 2013:

- ISSW 2013 *Granulation of Snow*, Steinkogler, W., Sovilla, B., Lehning, M.; 2013; In Proceedings of the International Snow Science Workshop ISSW, Grenoble, France.  
Weblink
- ISSW 2013 *Thermal Energy in Snow Avalanches*, Steinkogler, W., Sovilla, B., Jonas, T., Lehning, M.; 2013; In Proceedings of the International Snow Science Workshop ISSW, Grenoble, France.  
Weblink
- ISSW 2013 *Toward Better Decision Tools for the Management of Frequent Avalanches*, Segor, V., Pitet, L., Bovet, E., Dellavedova, P., Sovilla, B., Steinkogler, W., Veitinger, J., Maggioni, M., Chiambretti, I., Prola, M.; 2013; In Proceedings of the International Snow Science Workshop ISSW, Grenoble, France.  
Weblink
- ISSW 2013 *The Full-Scale Avalanche Dynamics Test Site Vallée de la Sionne*, Sovilla, B., McElwaine, J., Steinkogler, W., Hiller, M., Dufour, F., Surinach, E., Guillen, C., Fischer, J.-T., Thibert, E., Baroudi, D.; 2013; In Proceedings of the International Snow Science Workshop ISSW, Grenoble, France.  
Weblink
- DACA 2013 *Measuring the thermal balance of a snow avalanche*, Steinkogler, W., Sovilla, B., Jonas, T., Lehning, M.; 2013; Davos Atmosphere and Cryosphere Assembly, Davos, Switzerland.
- DACA 2013 *Development, refinement and application of a new evaluation and comparison method for computational snow avalanche simulation*, Fischer, J.T., Fromm, R., Gauer, P., Sovilla, B., Steinkogler, W., Granig, M., Christen, M.; 2013; Davos Atmosphere and Cryosphere Assembly, Davos, Switzerland.
- DACA 2013 *The study of snow avalanches from a climate change perspective*, Dellavedova, Segor, V., Pitet, L., Bovet, E., Steinkogler, W., Veitinger, J., McElwaine, J., Maggioni, M., Prola, M., Barbero, M., Chiambretti, I., Sovilla, B.; 2013; Davos Atmosphere and Cryosphere Assembly, Davos, Switzerland.
- DACA 2013 *Observed and modelled snow structure at the glacier Kongsvegen (Svalbard)*, Obleitner, M., Jacobi, M., Karner, M., Bilgeri, M., Steinkogler, W., Kohler, M.; 2013; Davos Atmosphere and Cryosphere Assembly, Davos, Switzerland.

## 2012:

- ISSW 2012 *How snow cover properties influence avalanche dynamics*, Steinkogler, W., Sovilla, B.,  
Weblink Lehning, M.; 2012; In Proceedings of the International Snow Science Workshop ISSW,  
Anchorage, USA.
- ISSW 2012 *The role of thermal temperature in avalanche flow*, Valero, C., Feistl, T., Steinkogler,  
Weblink W., Buser, O., Bartelt, P.; 2012; In Proceedings of the International Snow Science  
Workshop ISSW, Anchorage, USA.
- ISSW 2012 *Objective Comparison of Two Numerical Avalanche Dynamics Models*, Fischer, J.-T.,  
Weblink Steinkogler, W., Granig, M., Christen, M.; 2012; In Proceedings of the International  
Snow Science Workshop ISSW, Anchorage, USA.
- EGU 2012 *Influence of snow-cover properties on avalanche dynamics*, Steinkogler, W., Sovilla, B.,  
Lehning, M.; 2012; European Geoscience Union, Vienna, Austria.
- EGU 2012 *Permafrost simulations in the Dolomites using Alpine3D*, Steinkogler, W., Bavay, M.,  
Lehning, M.; 2012; European Geoscience Union, Vienna, Austria.
- EGU 2012 *Snow micro-structure at Kongsvegen glacier, Svalbard*, Bilgeri, F., Karner, F.,  
Steinkogler, W., Fromm, R., Obleitner, F., Kohler, J.; 2012; European Geoscience  
Union, Vienna, Austria.
- EGU 2012 *Large-scale modelling permafrost distribution in Ötztal, Pitztal and Kaunertal (Tyrol)*,  
Hoinkes, S., Sailer, R., Lehning, M., Steinkogler, W.; 2012; European Geoscience Union,  
Vienna, Austria.

## 2010:

- IGS 2010 *A new map of icing potential for Switzerland*, Grünewald, Steinkogler, Dierer, Cattin,  
Steiner, Lehning; 2012; International Symposium on Snow, Ice and Humanity in a  
Changing Climate, Sapporo, Japan.

## 2009:

- ISSW 2009 *Systematic Assessment of New Snow Settlement in SNOWPACK*, Steinkogler, W., Fierz,  
Weblink C., Lehning, M., Obleitner, F.; 2009; In Proceedings of the International Snow Science  
Workshop ISSW, Davos, Switzerland.
- SGM 2009 *A systematic approach to quantify the performance of SNOWPACK.*, Steinkogler, W.,  
Fierz, C., Lehning, M., Obleitner, F.; 2009; 7th Swiss Geoscience Meeting, Neuchatel,  
Switzerland.

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## Non peer-reviewed

*Le site expérimental de la vallée de la Sionne dédié à l'étude de la dynamique des avalanches.*, Sovilla, B., McElwaine, J., Steinkogler, W., Veitinger, J., Köhler, A., Bühler, Y., Scharr, M., Hiller, M., Dufour, F., Suriñach, E., Perez Guillen, C., Fischer, J.-T., Thibert, E., Baroudi, D.; 2014; Neige et avalanches 145, avril: 28.

*Granulation de la neige*, Steinkogler, W., Sovilla, B., Lehning, M.; 2014; Neige et avalanches 145, avril: 28.

*Numerische Simulation von gravitativen Naturgefahren mit RAMMS (Rapid Mass Movements)*, Christen, M.; Gerber, W.; Graf, C.; Bühler, Y.; Bartelt, P.; Glover, J.; McArdell, B.W.; Feistl, T.; Steinkogler, W., 2012; Wildbach- Lawinenverbau 76, 169: 282-292.



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