

SGMScC 2011

Swiss Geoscience Master Congress

10th November 9:00 - 17:30

NO C60 – ETH Zurich

9:00 Welcome Address by the Study Delegate of Department of Earth Sciences Prof. Sean Willet

Geochemistry

- 9:10 **Isotope geochemistry of the Varuträsk pegmatite (northern Sweden)**
Karin Siegel, ETH Zurich
- 9:35 **Mo isotope composition of Mo-rich hydrothermal systems in the Aar Massif**
Nicolas Greber, University of Bern
- 10:00 **Ordovician mafic magmatism in the Métallier Formation of the Mont-Fort nappe – geodynamic implications**
Laure Gauthiez, University of Lausanne

Coffee Break and Poster Session

Applied Geophysics and Seismology

- 10:40 **Investigating the role of local geology on earthquakes: the case of Geneva**
Azarm Farzam, University of Geneva
- 11:05 **A critical appraisal of asymptotic 3D to 2D data transformation and the potential of complex frequency 2.5D modelling in seismic full waveform inversion**
Ludwig Auer, ETH Zurich
- 11:30 **3D elastic wave focusing effects in the Los Angeles basin upon the Northridge earthquake**
Andrea Tesoniero, ETH Zurich
- 11:55 **Surface Nuclear Magnetic Resonance Tomography on a First-Year Sea Ice Pressure Ridge**
André Nuber, ETH Zurich

Lunch

Petrology and Applied Geochemistry

- 13:25 **Explosion intensities and fragmentation modes of the Loolmurwak and Eledoi maar volcanoes, Lake Natron – Engaruka monogenetic field, northern Tanzania**
Jaap Berghuijs, ETH Zurich
- 13:50 **Dunite formation in the Lanzo peridotites, Italy: a morphological, petrological and geochemical study.**
Evelyne Tornare, University of Lausanne
- 14:15 **Analysis and Characterisation of Metal-Depleted Dry Incinerator Bottom Ash, Attempt of a Product Definition for the Cement Industry**
Anja Pestalozzi, ETH Zurich

Coffee Break and Poster Session

Alpine Climatology and Meteorology

- 14:55 **Influence of particulate matter on observed albedo reductions on Plaine Morte glacier, Swiss Alps**
Eva Bühlmann, University of Bern
- 15:20 **Trajectory Analysis of Warm Rain Orographic Precipitation**
Annette Miltenberger, ETH Zurich
- 15:45 **Modelling of Evaporation in high Alpine Catchments**
Diane von Gunten, ETH Zurich

Short Break

Surface Processes and Tectonics

- 16:25 **Suitability of Cesium-137 and USLE for soil erosion assessment in an Alpine valley (Val Piora, Switzerland)**
Gregor Juretzko, University of Basel
- 16:50 **New age constraints on the opening of the Piemont-Ligurian Ocean (Tasna-Naauders area, CH-A)**
Anne-Cécile Hauser, University of Lausanne
- 17:15 **Basin Dynamics in Taiwan**
Patricia Eugster, ETH Zurich

The congress will be followed by an informal apero.