ESF Conference in Partnership with LFUI on
Cosmogenic Nuclides
8 - 13 August 2011 | Obergurgl, Austria

Final Programme

Monday 8 August	
17:00 onwards	**Registration**
19:30	**Welcome Drink**
20:00	**Dinner**

Tuesday 9 August	
08:30 - 09:00	**Welcome addresses** Tibor Dunai - Universität zu Köln, DE David Blaschke - European Science Foundation
Session 1: Methodological Revision	
09:00 - 09:45	**Tibor Dunai -** Universität zu Köln, DE *CRONUS-EU: a synopsis of results*
09:45 - 10:30	**Fred Phillips -** New Mexico Institute of Mining & Technology, US *CRONUS-Earth: a synopsis of results*
10:30 - 11:00	**Coffee break**
11:00 - 11:45	**Nathaniel Lifton -** Purdue University, US *Scaling factors for cosmogenic nuclide production - status and outlook*
11:45 - 12:30	**John Stone** - University of Washington, US *Muon-produced cosmogenic nuclides: calibration and geomorphic applications*
12:45	**Lunch**
14:00 - 15:30	**Discussion**
15:30 - 16:00	**Coffee break**
Session 2: Applications: Burial, Depth-Profiles	
16:00 – 16:20	**Zachary Ploskey - University of Washington, US** *Recovering Pleistocene glacial erosion rates with cosmogenic nuclide methods* (Short talk)
16:20 - 16:40	**Reka-Hajnalka Fülöp - Universität zu Köln, DE** *Using in-situ cosmogenic C-14 and Be-10 depth-profiles to quantify site-specific Holocene soil erosional events: a sensitivity analysis* (Short talk)
16:40 - 17:00	**Pieter Vermeesch** - University of London, UK *Sand residence times of one million years in the Namib Sand Sea from cosmogenic nuclides* (Short talk)
17:00 - 17:20	**Philipp Häuselmann** - BOKU Wien, AT *Cosmogenic dating of Austrian and Slovenian Caves* (Short talk)
17:20 - 18:10	**Darryl Granger** - Purdue University, US *Burial dating: traditional and novel approaches*
19:00	**Dinner**
20:30 - 22:00	**Poster Session**

Wednesday 10 August	
Session 3: Exposure applications	
09:00 - 09:40	**Lucilla Benedetti -** CEREGE, Aix-en-Provence, FR *In situ 36Cl cosmogenic dating to recover past earthquake histories on limestone normal fault scarps*
09:40 - 10:20	**Finlay Stuart -** SUERC, East Kilbride, UK *Applications of cosmogenic 3He dating to volcano geomorphology*
10:20 - 10:40	**Group Photo**
10:40 - 11:00	**Coffee break**
11:00 - 11:20	**Dylan Rood** - Lawrence Livermore National Laboratory, US *Exposure dating of precariously balanced rocks* (Short talk)
11:20 – 11:40	**Eleanor Rainsley** - University of Exeter, UK *In-situ cosmogenic nuclides as a tool for dating relative sea level change: a test case from Broggerhalvoya, western Svalbard* (Short talk)
11:40 - 12:00	**Kristell Le Dortz -** ENS Paris, FR *A new method to assess pre-exposure of sediments in deserts environment and endorheic regions* (Short talk)
12:00 - 12:20	**Marc Ostermann** - University of Innsbruck, AT *Cosmogenic nuclide dating of catastrophic rocksildes/rock avalanches in Tyrol (Austria) compared with other dating methods* (Short talk)
12:30	**Lunch**
13:30 - 15:30	**Discussion**
15:30 - 16:00	**Coffee break**
Session 4: Erosion, in-situ	
16:00 - 16:40	**Regis Braucher** - CEREGE Aix-en-Provence, FR *Quantification of landscape processes with in situ produced cosmogenic nuclides*
16:40 - 17:20	**Alexandru Codilean** - GFZ-Potsdam, DE *Stochastic sediment transport: The single grain methodology*
17:20 - 17:40	**Florian Kober -** ETH-Zürich, CH *Debris flows and catchment wide denudation rates* (Short talk)
17:40 - 18:00	**Christoff Andermann** - Université de Rennes, FR *Erosion in the Nepal Himalayas from cosmogenic nuclides, suspended load and precipitation distribution* (Short talk)
18:00 - 18:20	**Dirk Scherler** - Universität Potsdam, DE *10Be-derived erosion and palaeo-erosion rates from the NW Himalaya* (Short talk)
18:20 - 18:40	**Nicolas Bellin** - Université Catholique de Louvain, BE *Contrasting Modern and Cosmogenic-nuclide derived erosion rates for the Betic Cordillera, Spain* (Short talk)
19:00	**Dinner**
20:30 - 22:00	**Poster Session**

Thursday 11 August	
Session 5: AMS, analytical methods	
09:00 - 09:45	**Keith Fifield** - ANU, Canberra, AU *AMS methodolgy, history and outlook*
09:45 - 10:30	**Marcus Christl** - ETH-Zürich, CH *Low-energy AMS: developments and outlook*
10:30 - 11:00	**Coffee break**
11:00 - 11:20	**Stefan Heinze -** Universität zu Köln, DE *Results of first performance tests of CologneAMS for standard cosmogenic nuclides* (Short talk)
11:20 - 11:40	**Kristina Hippe -** ETH-Zürich, CH *The effect of climate change on surface exposure ages: insights from combined 10Be - in-situ 14C analysis (Gotthard Pass, Central Swiss Alps)* (Short talk)
11:40 - 12:00	**Swann Zerathe** - University Nice Sophia Antipolis, FR *Dating chert using cosmogenic 10Be: comparison of 36Cl and 10Be method on carbonate gravitational scarps* (Short talk)
12:00	**Lunch**
13:30	**Half-day excursion to the Köfels landslide** Lead by Marc Ostermann, University of Innsbruck, AT
19:00	**Dinner**
20:00 - 21:00	**Forward Look Plenary Discussion**

Friday 12 August	
Session 6: Erosion, meteoric	
09:00 - 09:45	**Friedhelm von Blanckenburg** - GFZ Potsdam, DE *The 10Be/9Be ratio as a weathering tracer*
09:45 - 10:30	**Jane Willenbrink** - University of Pennsylvania, US *Atmospheric cosmogenic nuclides as tracer for soil processes and sediment transport*
10:30 - 11:00	**Coffee break**
11:00 - 11:45	**Hella Wittmann-Oelze** - GFZ-Potsdam, DE *Large-scale denudation and sediment fluxes from cosmogenic nuclides in the Amazon Basin*
11:45 - 12:10	**Allan Bacon** - Duke University, US *Meteoric 10Be in acidic soils: a new approach from a North American Ultisol*
12:30	**Lunch**
13:30 - 15:30	**Discussion**
15:30 - 16:00	**Coffee break**
Session 7: Meteoric	
16:00 - 16:20	**Lucie Menabreaz** - CEREGE Aix-en-Provence, FR *Cosmogenic Beryllium-10 in marine sediments: a record of the geomagnetic moment variations during the Brunhes period* (Short talk)
16:20 - 17:00	**Martin Frank** - University of Kiel, DE *Cosmogenic nuclides in marine archives as tracers in paleoceanography and paleoclimatology*
17:00 - 17:40	**Didier Bourlès** - CEREGE Aix-en-Provence, FR *The use of the 10Be/9Be authigenic ratio for absolute dating over the last 14 Ma of marine and continental sedimentary deposits: Necessary conditions and applications*
19:00	**Reception and Conference Dinner**

Saturday 13 August	
07:00	**Breakfast and Departure**

List of Accepted Posters			
1	Barrows	Timothy	Age of Mega Floods on the White Nile River
2	Bekaddour	Toufik	Dip direction controls of bedrock on channel morphologies and denudation rates in the eastern Swiss Alps
3	Bentley	Michael	Intervals of rapid Holocene ice sheet thinning in West Antarctica
4	Bourlès	Didier	Cosmic-ray attenuation by seasonal snow cover revealed by neutron-detector monitoring: implications for cosmic-ray exposure studies in mountainous areas
5	Chang	Mien	Interaction between alluvial fan terraces and fault activities: Using cosmogenic nuclides dating method in eastern Taiwan
6	Chen	Rou-Fei	Application of in situ-produced cosmogenic nuclides to decipher activity of the deformation front in western Taiwan
7	Geiger	Alessa J.	Constraining the maximum altitude of the Patagonian Ice Sheet (southern sector) over the last glacial cycle using in-situ produced terrestrial cosmogenic nuclide surface exposure dating
8	Gheorghiu	Delia	Cosmogenic 10Be constraints on the deglaciation history in the Rodna Mountains, Northern Romania
9	Glotzbach	Christoph	Deciphering the long-term and short-term driving forces of landscape evolution, an example from the Western Alps
10	Hein	Andrew	Pleistocene history of the Slessor Glacier, Weddell Sea embayment, Antarctica
11	Kang	Chu	Study on Tectonic Activity using Geomorphologic Analysis of the Eastern Flank of the Central Range in Taiwan
12	Lindow	Julia	Glacial retreat since the Last Glacial Maximum – New constraints from the Walgreen Coast, West Antarctica
13	Mathers	Hannah	New insights into high level subglacial thermal boundaries: cosmogenic evidence from NW Scotland
14	Mccann	Louise	The application of detrital 21Ne to unravelling fluvial stratigraphy of the Great Plains
15	Medynski	Sarah	Cosmogenic 3He: a tool for dating the geomorphological evolution of an active rift
16	Munack	Henry	Late Quaternary basin-wide erosion rates in the upper Indus valley, western Tibetan Plateau Margin, from cosmogenic 10Be
17	Puchol	Nicolas	3He variability in sands of Ethiopian rivers and its influence on cosmonuclides-based average denudation rates
18	Rixhon	Gilles	Reconstructing the middle Pleistocene uplift/incision episode in NE Ardennes (Belgium) - Insights from 10Be/26Al dating of river terraces
19	Rixon	Rebecca	Using comsogenic isotopes to identify areas of biological refugia in the eastern Antarctic Peninsula
20	Rodés	Ángel	Complex-exposure domain in "banana plots" from two cosmogenic isotope concentrations. Are burial processes required?
21	Sarikaya	Mehmet	Applications of Cosmogenic Isotopes from Turkey
22	Savi	Sara	10Be in the understanding of sediment transfer
23	Schmidt	Silke	Be-10 exposure dating of depositional surfaces at the eastern Andes: A note of caution on the use of boulders
24	Shanks	Richard	What was hard is easy and what was easy is hard: Al, Be and Cl-AMS
25	West	Nicole	Using meteoric 10Be to estimate soil residence times and erosion rates at the Susquehanna Shale Hills Critical Zone Observatory, PA
26	Wiesel	Hendrik	Glaciation history of Queen-Maud-Land (Antarctica)- new exposure data from Nunataks