



2012 EGU Session

## Terrestrial Laser Scanning in Geomorphology

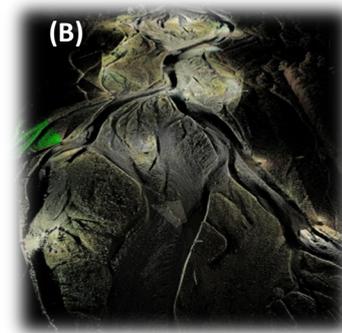
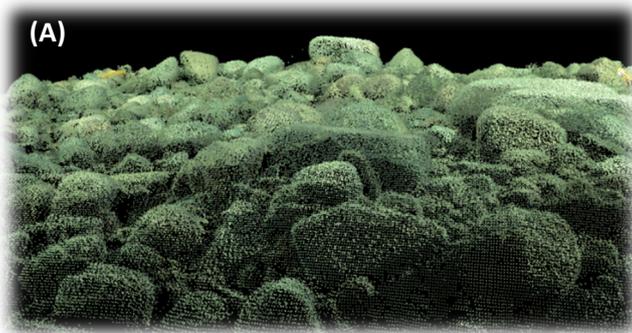
Dear Colleague,

We would like to invite abstracts on the subject of 'Terrestrial Laser Scanning in Geomorphology' for a session at the European Geosciences Union General Assembly 2012 (Vienna, 22-27 April 2012). This is part of a larger session on 'High definition topography - data acquisition, modelling, interpretation' (GM2.1) convened by Dirk Rieke-Zapp (University of Bern), Alexander Reiterer (Technical University of Munich), Jim Chandler (Loughborough University), James Brasington (University of Canterbury), Mark Powell and Nick Tate (University of Leicester) and Damià Vericat (University of Lleida and Forestry and Technology Centre of Catalonia).

Recent technological developments in Terrestrial (ground-based) Laser Scanning (TLS) offer new opportunities and challenges for data collection, processing and modelling to characterise geomorphic surfaces at multiple scales. Although there is increasing convergence in the scanning technology available from manufacturers, there is also an increasing variety of software to process and extract features from large data sets - many of which are often bespoke, developed in specific research contexts. Within this context the session would provide an opportunity for researchers to:

1. Showcase recent applications of TLS in geomorphic contexts
2. Provide examples and good practice guidance on the collection and processing of TLS data in geomorphic contexts, and
3. Identify both the possibilities and constraints in using this technology for geomorphic research.

The proposed session is supported by the ISPRS Commission V Working Group V/6 - "Close range morphological measurements for the Earth Sciences" and *LiDARnet*.



(A) A detailed TLS point cloud of a gravelly patch, (B) Reach scale TLS-based point cloud from the Feshie River (Scotland).

The papers presented at the EGU session will be considered for a special edition of an international journal that would be co-edited by James Brasington, Mark Powell, Nicholas Tate, and Damià Vericat. Information on abstract submission can be found at <http://meetings.copernicus.org/egu2012/>. **The deadline for abstracts is January 17.**

Yours sincerely,

Dr Nick Tate

On behalf of the conveners