

The following application was submitted to the MARGINS Office:

Name:

Nick Preston

Category: Post-doc Researcher

Address:

Landcare Research NZ Ltd.
cnr. Ridett Rd. & University Ave.
Massey University
Palmerston North,
New Zealand

E-mail: prestonn@landcareresearch.co.nz

Phone: +64 6 3567154

Fax: +64 6 3559230

Statement of interest:

My interest is in catchment-scale sediment routing and the application of this to studies of landform development at a range of temporal scales (Holocene to decadal) and improved land management. I am interested in switching between climate, tectonic and land use as dominant controls on sediment redistribution. The relative recency of the anthropogenic signal makes New Zealand an ideal location for such studies, enabling distinction between anthropogenic and non-anthropogenic signals.

Short resume:

Full Name:

Dr Nicholas James Preston

Present Position:

Post-doctoral Researcher, Erosion Processes

Present Employer:

Manaaki Whenua Landcare Research

Present Work Address: Private Bag 11052, Palmerston North
PO Box 69, Lincoln 8152

Academic Qualifications:

B.Sc. (Geography), Victoria University of Wellington, 1993

Cert. of Proficiency (Regional Resource Planning), Victoria University of Wellington, 1994
M.Sc. (1st Class Hons) (Physical Geography), Victoria University of Wellington, 1996
Dr. rer. Nat (PhD) (Physical Geography), Universität Bonn, 2001

Years as a practising Researcher: 5

Professional Positions Held:

2001–present Scientist, Landcare Research, Palmerston North.
1998-2001 Research Assistant, Universität Bonn, Germany.
1994-1997 Sessional Assistant, Victoria University of Wellington.

Present research/professional speciality: Geomorphologist (Sediment redistribution at multiple spatio-temporal scales: Human impacts on geomorphic systems; Landform evolution).

Number of Refereed Publications: 6

Number of Significant Publications not included in the above: 9

1. Major publications (in the past 5 years):

Brooks, S.M., Crozier, M.J., Preston, N.J. & Anderson, M.G. 2002. Regolith evolution and the control of shallow translational hillslope failure: application of a two-dimensional coupled soil hydrology - slope stability model, Hawke’s Bay, New Zealand. *Geomorphology* 45. 165-179.
Crozier, M.J. & Preston, N.J. 1998. A landform model for eroding hill country. In: Forer, P. & Perry, P. (Eds.), *Proceedings of the 18th Conference of the New Zealand Geographical Society (1995)*, Christchurch, New Zealand.
Crozier, M.J. & Preston, N.J. 1999. Modelling changes in terrain resistance as a component of landform evolution in unstable hill country. In: Hergarten, S. & Neugebauer, H.J. (Eds.), *Process Modelling and Landform Evolution, Lecture Notes in Earth Sciences 78*, Springer, Heidelberg. 267-284.
Dikau, R., Skowronek, A. & Preston, N.J. 2000. *Jungholozän Reliefentwicklung in lößbedeckten Wassereinzugsgebieten und ihre Modellierung. Final Report, SFB Teilprojekt B15 (in German)*.
Lang, A., Bork, H.-R., Mäckel, R., Preston, N.J. & Dikau, R. 2000. Land use and climate impacts on fluvial systems during the period of agriculture – examples from the Rhine catchment. *PAGES Newsletter* 8(3). 11-13.
Lang, A., Bork, H.-R., Mäckel, R., Preston, N.J., Wunderlich, J. & Dikau, R. (in press) Changes in sediment flux and storage within a fluvial system - some examples from the Rhine catchment. *Hydrological Processes*.
Preston, N.J. 1999. Event induced changes in landsurface condition. Implications for subsequent slope stability. In: Crozier, M.J. & Mäusbacher, R. (Eds.) *Frequency and Magnitude in Geomorphology, Zeitschrift für Geomorphologie Supplementband 115*. 157-173.
Preston, N.J. 2000. Feedback effects of rainfall-triggered shallow landsliding. In: Bromhead, E. Dixon, N. & Ibsen M-L. (Eds.) *Landslides in Research, Theory and Practice, Proceedings of the VIIIth International Symposium on Landsliding, Cardiff*. Thomas Telford, London. 1239-1244.
Preston, N.J. (in press) Hillslopes – processes. In: Goudie, A. (Ed.), *Encyclopaedia of Geomorphology*. Routledge.

Preston, N.J. & Crozier, M.J. 1999. Resistance to shallow landslide failure through root-derived cohesion in East Coast hill country soils, North Island, New Zealand. *Earth Surface Processes & Landforms* 24(8). 665-675.

Preston, N.J. & Schmidt, J. (in press) Modelling sediment fluxes at large spatial and temporal scales. In: Lang, A., Hennrich, K.P. & Dikau, R. (Eds.), *Long term hillslope and fluvial system modelling – concepts and case studies from the Rhine river catchment*, Lecture Notes in Earth Sciences, Springer, Heidelberg.

Sidorchuk, A.Y, Preston, N.J., Basher, L., Baisden, W.T., Trustrum, N.A. & Tate, K. 2002. Process-based models for simulation and prediction of erosion-related organic carbon losses on the national scale: an example for New Zealand. In: Yuren, J. (Ed.) *Sustainable Utilization of Global Soil and Water Resources. Proceedings of the 12th ISCO Conference, Beijing*. 232-238.

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ABSTRACT

Title:

Authors:

Abstract:

Wish to include graphics:

Server protocol: HTTP/1.0

Remote host: poxy.landcareresearch.co.nz

Remote IP address: 202.27.240.6