

BSG Fixed Term Working Group on Reduced Complexity Modelling in Geomorphology

Annual Report

Working group activities centred on sessions at the European Geosciences Union General Assembly (April 2008) and the British Society for Geomorphology Annual Meeting (July 2008) that were organised by working group members. The EGU session included oral presentations on cellular automaton modelling of braided rivers (Philippe Davy, *Rennes, France*), multi-process landscape evolution modelling over 50,000 years in South Africa (Arnaud Temme, *Wageningen, Netherlands*), use of cellular automaton models to investigate bedrock channel sediment transport processes (Rebecca Hodge, *Glasgow, UK*), evaluation of cellular based modelling of sediment transfer from a catchment to a lucastrine basin (Richard Chiverrell, *Liverpool, UK*), and use of cellular modelling to interpret ecogeomorphic interactions and disturbance response in vegetated aeolian dune systems (Jo Nield, *Southampton, UK*). The oral paper session was very well attended and was followed by a series of poster presentations and some lively debate in the poster hall.

The session at the BSG Annual meeting in Exeter included oral presentations on parameterising bedrock incision models (Rebecca Hodge, *Glasgow, UK*), simplification in 'physically-based' models of gravel transport and aggradation (Rob Ferguson, *Durham, UK*), reduced-complexity simulation of interactions between sediment transfer and lateral channel adjustment in gravel-bed rivers (Emma Waterhouse, *Durham, UK*), simple rule-based modelling of floodplain construction (Doug Jerolmack, *Pennsylvania, USA*), catchment sediment modelling in a reduced complexity framework (Keith Richards, *Cambridge, UK*), cellular modelling of emergent patterns of dynamic desert ecosystems (John Wainwright, *Sheffield, UK*), and a practical and philosophical look at approaches to reduced complexity modelling (Andreas Baas, *Kings, UK*). Once again, there were a series of poster presentations that followed the oral session.

Working group funds for this and the previous year (£500 total) were used to provide support for both oral and poster presenters to attend the Exeter meeting. Funds were distributed between overseas and postgraduate presenters.