

SELECTED PUBLICATIONS RELATED TO MODEL DEVELOPMENT AND APPLICATIONS

It is important that these papers are consulted in order that users can thereby assess whether the analytical procedures adopted for the model development are relevant and appropriate for any potential application for which it is proposed that **CHASM** software be utilised.

a) Papers of relevance to CHASM

Wilkinson P. L., **Anderson M. G**, Lloyd, D.M & J-P. Renaud , 2002, Landslide hazard and bioengineering: towards providing improved decision support through integrated model development *Environmental Modelling and Software*, 17, 333-344

Wilkinson, P. L., **Anderson, M. G.**, & Lloyd, D. M. 2002 An integrated hydrological model for slope stability *Earth Surface Processes & Landforms* 27, 1267-1283

Lloyd, D.M., **Anderson M. G**, Hussein, A. N., Jamaludin, A. & Wilkinson P. L, 2001 Preventing landslides on roads and railways: a new risk-based approach. *Civil Engineering ICE* , 144, 129-134.

Lloyd, D.M., **Anderson M. G**, Hussein, A. N., Jamaludin, A. & Wilkinson P. L, 2001 Preventing landslides on roads and railways: a new risk-based approach, *New Civil Engineer International*, 98, 27-32

Lloyd, D. M., Othman, A, & Wilkinson, P. L , **Anderson, M. G.**, 2001 Predicting landslides: Assessment of an automated rainfall based landslide warning system, in K.K.S.Ho and K.S.Li, *Geotechnical Engineering - Meeting Society's Needs*, Balkema, Volume 1 135 - 139

Anderson, M.G., Hartshorne, J. and Lloyd, D.M. (1998) Predicting rainfall-induced slope instability: a discussion. **Proc. Inst. Civ. Eng.** Geotechnical Engineering , 119, 211-218.

Anderson, M.G., Lloyd, D.M., Park, A., Hartshorne, J., Hargraves, S. and Othman, A. (1996) Establishing new design dynamic modelling criteria for tropical cut slopes. Proc. 7 **International Conference Landslides**, Trondheim, 1067-1072.

Collison, A.J.C. and Anderson, M.G. (1996) Using a combined slope hydrology/slope stability model to identify suitable conditions for landslide prevention by vegetation in the humid tropics. **Earth Surface Processes and Landforms** 21, 737-747.

Collison, A.J.C., Anderson, M.G. and Lloyd, D.M. (1995) Impact of vegetation on slope stability in a humid tropical environment: a modelling approach. Proc. Inst. Civil Eng. Water Maritime and Energy, 112, 168-175,.

(This paper was awarded by the Institute of Civil Engineers Trevithick Premium Triennial award for a research paper to the Institution in 1996).

Anderson, M.G., Lloyd, D.M. and Othman, A. (1994) Using a combined slope hydrology/slope stability model for cut slope design in the Tropics, **Malaysian J. Tropical Geog.** 25, 1-10.

Anderson, M.G., Lloyd, D.M., Park, A., Harris, M.B., Jamaluddin, A., Collison, A.J.C. and Anderson, E.A. (1994) Extending the role of slope hydrology-stability assessments in the Tropics: towards cost-effective management of mountainous roads in Malaysia. **Malaysian Roads Conference**, IKRAM. 3, 43, 1-26.

Anderson, M.G., Othman, A. and Lloyd, D.M. (1994) Using a combined slope hydrology/slope stability model for cutslope design in the Tropics. **Malaysian Road Conference**, IKRAM, 1, 4, 1-19.

Anderson, M.G. (1992) A statistical approach to cut slope instability problems in peninsular Malaysia. In D.H. Bell (ed) **Landslides**, Balkema, Rotterdam, 1379-1385.

Anderson, M.G. and Lloyd, D.M. (1991) Using a combined slope hydrology-stability model to develop cut slope design charts. **Proc. Inst. Civ. Engineers** 91, 705-718.

Anderson, M.G. (1990) Developing hydrological stability models for cut slope design in the Tropics - a discussion. **Int. Soc. for Soil Mech. & Foundtns.** Geomechanics in Tropical Soils, 2, 571-572.

Anderson, M.G. and Shen, J. (1988) Monitoring and modelling infiltration through a soil cement cover. **Proc. Int. Conf. on Infiltration Development and Application**, Honolulu, 178-187.

Anderson, M.G., Kemp, M.J. and Lloyd, D.M. (1988) Applications of soil water finite difference models to slope stability problems. Vth International Symp. on Landslides, Lausanne, 1, 525-530.

Anderson, M.G., Kemp, M.J. and Lloyd, D.M. (1988) Refinement of hydrological factors for the design of cut slopes in the Tropics. **Int. Soc. for Soil Mech. & Foundtns.**, Geomechanics in Tropical Soils, 233-240.

Anderson, M.G. and Howes, S. (1985) Development and application of a combined soil water slope stability model. **Quarterly Journal Engineering Geology** 18, 225-236.

b) Technical Reports and Manuals

Anderson, M.G., Kemp, M.J. and Lloyd, D.M. (1997) Hydrological Design Manual for Slope Stability in the Tropics. **Transport Research Laboratory**. Overseas Road Note 14 **58pp.**

Anderson, M.G. (1990) A feasibility study on mathematical modelling of slope hydrology and stability. **Geotechnical Control Office**, Hong Kong CE 23/90 **109pp.**

Anderson, M.G. (1983) The prediction of soil suction for slopes in Hong Kong. **Geotechnical Control Office**, Hong Kong, CE 3/81, **244pp.**

c) Books related to general modelling issues & slope stability processes

Anderson, M.G. and Brooks, S.M. (eds) (1996) **Advances in Hillslope Processes Vols 1 & 2**, Wiley, Chichester.

Anderson, M.G. and Richards, K.S. (1987) **Slope Stability: Geotechnical Engineering and Geomorphology**, Wiley, Chichester.