

FABIO V. DE BLASIO (\*)

## LEVEES CREATION IN DEBRIS FLOWS DURING RAPID DEWATERING: OBSERVATIONS FROM JOTUNHEIMEN, SOUTHERN NORWAY

**ABSTRACT:** DE BLASIO F.V., *Levees creation in debris flows during rapid dewatering: observations from Jotunheimen, Southern Norway.* (IT ISSN 1724-4757, 2006).

Field observations from southern Norway, theoretical analysis, and a simple experimental test indicate that levees in coarse-grained, water-rich debris flow may partly form as a result of strong dewatering during flow. Dewatering may also influence the runout distance of the debris flow.

KEY WORDS: Debris flows, Levees, Leirdalen, Norway.

**RIASSUNTO:** DE BLASIO F.V., *Formazione degli argini naturali nei debris flow soggetti a rapida perdita d'acqua: osservazioni a Jotunheimen, Norvegia Meridionale.* (IT ISSN 1724-4757, 2006).

Osservazioni di campo (Norvegia meridionale), considerazioni teoriche e un semplice esperimento indicano che gli argini naturali in un debris flow a grana grossa e ricco di acqua potrebbero in parte formarsi come conseguenza di una forte perdita d'acqua durante il flusso. La perdita d'acqua puo' anche influenzare la distanza percorsa dal debris flow.

TERMINI CHIAVE: Debris flow, Argini, Leirdalen, Norvegia.

---

(\*) *Department of Geosciences, University of Oslo, P.O. Box 1047 Blindern - 0316 Oslo, Norway and International Centre for Geohazards, c/o Norwegian Geotechnical Institute, P.O. Box 3930 Ullevål Stadion - 0806 Oslo, Norway.*