

Thursday, November 25, 2010

10:00 - 10:20 : A new mechanical approach for infill-fractured rock slopes : application to the "Rochers de Valabres», Jérôme DURIEZ, Félix DARVE, Frédéric .DONZE (INPG / L3S-R)

10:20 - 10:40 : Impact of simplifications on the modeling of the hydromechanical behavior of a fractured porous carbonate outcrop, Alain THORAVAL (INERIS), Frédéric CAPPÀ (GeoAzur, Sophia-Antipolis), Yves GUGLIEMMI (Université de Marseille)

10:40 – 11:10 : Coffee break

5th session : Case studies and back analyses. Co-chaired by Vincent LABIOUSE (EPFL), Véronique MERRIEN-SOUKATCHOFF (INPL/LAEGO)

11:10 – 11:20 : Introduction

11:20 – 11:40 : Quantitative assessment of rock fall hazard along a cliff, Didier HANTZ (LGIT, Grenoble)

11:40 – 12:00 : A study of the rockfalls occurred in 2009 in the Mont Blanc massif, Ludovic RAVANEL, Philip DELINE (EDYTEM, Université de Savoie)

12:00 – 12:20 : Le mouvement de versant de Séchillienne : point sur l'activité du phénomène, Johan KASPERSKI, Pierre POTHERAT, Jean-Paul DURANTHON (CETE Lyon)

12:20 – 14:00: Lunch (free)

Following 5th session : Case study and back-analysis

14:00 – 14:20 : Open pits slopes – case studies for deep quarries in Belgium Jean-Pierre TSHIBANGU, Fanny DESCAMPS (Université de Mons, Belgium)

14:20 – 14:40: Fort Génois de Tabarka : le patrimoine historique menacé par les instabilités de falaises, Stéphane CURTIL (TERRASOL), Slah Edinne HAF-FOUDHI (Hydrosol Fondations), Kamel ZAGHOUBANI (Terrasol, Tunisia)

14h40 – 15:00 : Coffee break

6th session : Risk management & protection. Co-chaired by Thierry HUBERT (Ministry of Ecology), Jean-Louis DURVILLE (CGEDD)

15:00 – 15:10 : Introduction

15:10 – 15:30 : Comparison of two rock fall hazard mapping methodologies based on the French and Swiss guidelines, Jacopo Maria ABBRUZZESE, Vincent LABIOUSE (EPFL, Switzerland)

15:30 – 15h50 : The insured Cost of Ground Movements in Mainland France from 1995 to 2006, Céline GRISLAIN-LETREMY (Centre de Recherche en Economie et Statistique, Université Paris-Dauphine), Cédric PEINTURIER (Ministry of Ecology)

15:50 – 16:10 : Risk assessment of rockfalls on a railway line : from definition of the system to elaboration of the protection program, Nicolas POLLET, Jean-Luc DEHERRIPONT, Julien MASSOULIER (SNCF, Direction de l'Ingénierie)

16:10 – 16:30 : A new full-scale testing station for rockfall protection systems, Marion BOST, Frédéric ROCHER-LACOSTE (Université Paris-Est, LCPC), Laurent DUBOIS, Mathieu FEREGOTTO (CETE Lyon)

16:30 – 16:50 : La végétation : un moyen possible de gestion du risque d'instabilité d'un versant rocheux, Céline BOULAY-MATIGNON, Charline TISSIER, David MATHON (CETE Normandie-Centre / LRPC Blois)

16:50 – 17:00 : Concluding remarks and closing of symposium



**November 24-25, 2010.
Centre de Conférences
Paris Victoire
52, rue de la Victoire
75009 PARIS**

Wednesday, November 24, 2010

8:30 – 09:30 : Registration

09:30 – 9:45 : Opening session - Welcome / agenda

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Wednesday, November 24, 2010

1st session : Geotechnical and Geophysical investigations. Co-chaired by Jean-Pierre MAGNAN (LCPC), Hormoz MODARESSI (BRGM)

09:45 – 09:55 : Introduction

9:55 – 10:15 : Cross-analysis of temperature and slope microseismic activity for the Matterhorn peak study site (North-Western Alps), Cristina OCCHIENA, Marina PIRULLI, Claudio SCAVIA (Politenico di Torino, Italy)

10:15 – 10:35 : La mesure à très longue distance. Un besoin. Un outil : le radar ULB, Pierre POTHERAT, Jean-Paul DURANTHON, Alain BENOIT (CETE/LRPC Lyon), François LEMAITRE (ONERA)

10:35 – 11:00 : Coffee break

11:00 – 11:20 : Comportement d'une écaïlle rocheuse avant sa rupture à partir de mesures extensométriques et sismiques, Philippe MOUROT (LGIT, MYOTIS), Jean-Luc GOT, Jacques GRANGEON (LGIT)

11:20 – 11:40 : Multi-parameter monitoring strategy applied to unstable rock slopes: the example of the Ruines de Séchilienne (Isère, 38), Clémence DUNNER, Emmanuelle KLEIN, Arnaud CHARMOILLE, Pascal BIGARRE (INERIS)

11:40 – 12h00 : Open fractures on rock slopes : experimental and numerical analysis, Muriel GASC-BARBIER (LCPC, LRPC Toulouse), Pietro ALFONSI (LCPC)

12:00 – 14:00: Lunch (free)

2nd session : Rockmass characterization. Co-chaired by Thierry VILLEMEN (EDYTEM Université de Savoie), Didier HANTZ (LGIT)

14:00 – 14:10 : Introduction

14:10 – 14:30 : Apport des méthodes géophysiques à la caractérisation d'aléas rocheux - Application opérationnelle à l'étude de deux grands surplombs rocheux dans les gorges de la Bourne (Vercors, Isère), Lionel LORIER,

Alexandre MATHY, Olivier LE ROUX (Association pour le Développement des Recherches sur les Glissements de Terrains)

14:30 – 14:50 : Apport des reconnaissances profondes par méthodes géophysiques sur le mouvement de versant de Séchilienne (Isère), Johan KASPERSKI (CETE Lyon), Denis JONGMANS (LGIT), Richard LAGABRIELLE (LCPC), Pierre POTHERAT (CETE Lyon), Ombeline MERIC (SAGE)

14:50 – 15:10: Sensitivities in rock mass properties : a DEM insight, Cédric LAMBERT (University of Canterbury, New Zealand), John READ (CSIRO, Australia)

15:10 – 15:30 : Natural thermal strains close to surface of rock slopes - Measurement and modelling of the «Rochers de Valabres» case, Véronique MERRIEN-SOUKATCHOFF, Yann GUNZBURGER (INPL/LAEGO), Cécile CLEMENT (INERIS)

15h30 – 15:50 : Coffee break

3rd session : Rockfall trajectory: experiment and modeling. Co-chaired by Denis FABRE (CNAM), Pierre POTHE-RAT (CETE Lyon)

15:50 – 16:00 : Introduction

16:00 -16:20 : OFAI : 3D block tracking in a real-size rockfall experiment on a weathered volcanic rocks slope of Tahiti, French Polynesia, Thomas DEWEZ, Aude NACHBAUR, Christian MATHON, Olivier SEDAN, Hiromi KOBAYASHI (BRGM), Frédéric BERGER (CEMAGREF), Emmanuel DES GARETS, Emilie NOWAK (Land Management Authority, Tahiti)

16:20 -16:40 : Calibration of restitution coefficients, based on a real-size experiment in the weathered volcanic context of Tahiti, French Polynesia, Christian MATHON, Hiromi KOBAYASHI, Thomas DEWEZ, Olivier SEDAN, Aude NACHBAUR (BRGM), Frédéric BERGER (CEMAGREF), Emmanuel DES GARETS, Emilie NOWAK (Land Management Authority, Tahiti)

16:40 – 17:00 : Probabilistic rockfall trajectory simulations including the protective effect of forests, Franck BOURRIER, Frédéric BERGER, François NICOT (CEMAGREF), Luuk DORREN (FOEN, Switzerland), Félix DARVE (INPG/L3S-R)



Short presentations

17:00 – 17:10 : Rockfall numerical modelling using a combined finite-discrete element approach, Andrea LISJAK, Giovanni GRASELLI (University of Toronto, Canada), Michele SPADARI, Anna GIACOMINI (University of Newcastle, Australia)

17:10 – 17h20 : PiR3D, an effective and user-friendly 3D rockfall simulation software : formulation and case-study application, Y. COTTAZ (Geociel), JD. BARNICHON (conseiller), N. BADERTSCHER, F. GAINON (Institut Géotechnique, Switzerland)

17:20 – 17:30 : Welcome . Vincent LAFLECHE, General Manager of INERIS

17:30 – 19:00 : Cocktail for 20th anniversary of INERIS

Thursday, November 25, 2010

4th session : Rockmass modeling. Co-chaired by Félix DARVE (INPG/L3S-R), Claudio SCAVIA (Politenico di Torino)

08:30 – 08:40 : Introduction

8:40 – 9:00 : Elastic gravitational stresses in inhomogeneous slopes, Igor A. OSTANIN, Sofia G. MOGILEVSKAYA, Joseph F. LABUZ (University of Minnesota, USA)

9:00 – 9:20 : Slope Model: A 3D numerical simulator for rock slopes based on micromechanics, S. EMAM, B. DAMJANAC, P.A. CUNDALL, L.J. LORIG (Itasca Consulting Group, USA)

9:20 – 9:40 : 3D DEM modelling of jointed rock slopes, Luc SCHOLTES, Frederic V. DONZE, John READ (CSIRO, Australia)

9:40 - 10:00 : Modélisation numérique des éléments joints élastoplastiques et endommageables - Application à l'étude de la stabilité des massifs rocheux, Ahmad POUYA & Pedram BEMANI YAZDI (Université Paris Est, LCPC)