



ALERT
Geomaterials

Alliance of Laboratories in Europe for Research and Technology
<http://alert.epfl.ch/>

20th Alert Workshop and School Programs
Aussois, October the 12th to October the 17th 2009

List of Participants
(September 22, 2009)



20th Alert Workshop Program
Aussois, October the 12th 2009

Session I: Modelling of natural hazard and vulnerability of structures in geomechanics

Coordinators: Manuel Pastor (CEDEX and UPM, Madrid), Panagiotis Kotronis (EC Nantes)

8:30 – 8:40 Opening of the 20th ALERT Workshop

F. Darve (INPG), President of ALERT

8:40 Morning session opening

M. Pastor, P. Kotronis

8:40 – 9:05 Invited lecture 1

PSD method & algorithms and the Distributed Laboratory

P. Pegon (JRC-European Laboratory for Structural Assessment)

9:05 – 9:30 Invited lecture 2

Some contributions of physical and numerical modelling to the assessment of reinforced concrete structures and masonry infilled RC frames under extreme dynamic loading

D. Combescure (AFPS & Fusion For Energy-F4E)

9:30 – 9:50 Design of Rockfall shelters

F. Calvetti, C. di Prisco (Politecnico di Milano)

9:50 – 10:10 Non linear numerical modelling of pile-landslide interaction

A. Galli, C. di Prisco, G. Cocchetti (Politecnico di Milano)

10:10 – 10:30 A multi-scale model for composite rockfall protection structures combining experiments and numerical simulations

F. Bourrier, P. Gotteland, S. Lambert, F. Nicot (3S-R (UJF/INPG/CNRS), Cemagref)

10:30 – 10:45 COFFEE BREAK

10:45 - 11:10 Invited lecture 3

A mesoscopic model for describing the transition from diffuse to localized damage in concrete

C. La Borderie (LaSAGeC² & ISA-BTP, Univ.de Pau et des Pays de l'Adour)

11:10 – 11:30 Numerical simulation of interaction between avalanche and obstacles

M. Wawra, Y. Wang, H. Teufelsbauer, W. Wu (Univ. fur Bodenkultur Vienna and T.U.Darmstadt)

11:30– 11:50 Discrete element modelling to compute drag coefficients of obstacles impacted by granular flows

L. Favier, D. Daudon, F.V. Donzé, J. Mazars (3S-R UJF/INPG/CNRS)

- 11:50 – 12:10** Finite element models and sensitivity analysis of the vulnerability of protecting tunnel under avalanches impact loading
D. Daudon, P. Szczurowska, J. Baroth, Y. Ma, P. Perrotin, M. Momessin (3S-R UJF/INPG/CNRS)
- 12:10 – 12:30** Numerical modelling of rainfall effects on the slow movement of slopes
F. Lopez-Caballero and A. Modaressi (MSS-Mat. Ecole Centrale Paris)
- 12:30 – 14:00** **LUNCH**
- 14:00 – 14:25** **Invited lecture 4**
Modelling of marine foundations
A. Chan (University of Birmingham)
- 14:25 – 14:45** Stability analysis of a natural slope subjected to unsaturated transient seepage
J. Eichenberger, N. Matthieu and L.Laloui (Laboratory of soil mechanics, EPFL)
- 14:45 – 15:05** Influence of heterogeneity on the reliability and risk of a long 3D slope.
M.A. Hicks, J.D. Nuttall, J. Chen (Manchester University)
- 15:05 – 15:25** Relevance of hydro-mechanical coupled approach for geotechnical boundary value problems
S. Cuomo, L. Cascini, M. Pastor, G. Sorbino (Univ. degli Studi di Salerno)
- 15:25 – 15:45** An exercise on slope stability and perfect elastoplasticity
C. di Prisco, F. Pisanò (Politecnico di Milano)
- 15:45 – 16:05** **COFFEE BREAK**
- 16:05 – 16:30** **Invited lecture 5**
Granular flows: from small-scale experiments to full-scale avalanches. Flow dynamics and forces on structures
T. Faug, G. Chambon, M. Naaim, S. Bonelli (Cemagref)
- 16:30 – 16:50** Rainfall induced flow slides: A modelling approach to evaluate triggering conditions
G. Buscarnera and R. Nova (Politecnico di Milano)
- 16:50 – 17:10** Numerical study on the entrainment of bed material into rapid landslides
M. Pirulli, M. Pastor, C. Scavia (Politecnico di Torino and CEDEX, Madrid)
- 17:10– 17:30** First attempt of numerical modelling of landslides using the FEM with Lagrangian Integration Points
F. Dufour, A. Di Donna, F. Prunier, F. Darve (3S-R UJF/INPG/CNRS)
- 17:40 – 18:05** Subsidence Diffusion-Convection in Geostructures: The Direct Elliptic Problem
E. Vairaktaris, M. Stavropoulou, I. Vardoulakis (NTUA, UOA)
- 18:30 – 19:30** **ALERT General Assembly**
- 19:30 – 20:00** **Poster Session**
- 20:00** **DINNER**



20th Alert Workshop Program Aussois, October the 13th 2009

Session II : Geomechanics at small scale

Coordinators: Pierre Delage (ENPC), David Muir Wood (University of Dundee, UK)

- 8:30 - 8:40 Geomechanics at small scale: introduction**
P. Delage, D. Muir Wood
- 8:40 - 9:10 Invited presentation**
Probing the microstructure of colloidal pore networks: focus on clay suspensions
P. Levitz (CNRS-Polytechnique Ecole Polytechnique, Palaiseau Cedex, France), S. Brisard (Institut Navier, Ecole des Ponts et Chaussées, Marne la Vallée France), L. Michot and I. Bihannic (Laboratoire Environnement et Minéralurgie Nancy Université, CNRS-INPL)
- 9:10 - 9:35** Volume and fabric changes of three saturated clays from low to high stresses
Wiebke Baille, Tom Schanz, Ruhr-Universität Bochum, Germany
- 9:35 - 10:00** Micromechanical modelling of time dependent behaviour of heterogeneous rocks
J.F Shao, Y Huang, D Kondo, LML, Polytech Lille, France
- 10:00 - 10:25** Microstructure features affecting the phenomenological behaviour of moderately active clays
Gabriele Della Vecchia, Cristina Jommi, (Politecnico di Milano, Italy) Enrique Romero, (Universitat Politècnica de Catalunya, Spain)
- 10:25 - 10:50** A constitutive equation for the shale matrix of argillite
Sophie Cariou, Luc Dormieux, Université Paris Est, Ecole des Ponts, France
- 10:50 - 11:05 COFFEE BREAK**
- 11:05 - 11:30** Three dimensional DEM models of calibration chamber CPT tests
J. Butlanska, M. Arroyo, A. Gens (UPC, Barcelona, Spain) F. Calvetti (Politecnico di Milano, Italy)
- 11:30 - 11:55** Effect of direct shear box size and aspect ratio to shear band thickness investigated using Distinct Element Method
Yi Pik Cheng, Ho Kin Law, Kye Bond Wong, University College London, UK
- 11:55 - 12:20** Stress-strain behaviour and stick-slip instabilities in model loose granular materials: DEM simulations compared to experiments
Chloë Dequeker, Jean-Noël Roux (Unité de Recherches Navier ENPC, France), Thiep Doanh (ENTPE, Lyon, France)
- 12:30 - 14:00 LUNCH**

- 14:00 - 14:30 Invited presentation**
 Observations on DEM calibration and homogenization from a study on a cemented sand
C. O'Sullivan (Imperial College London)
- 14:30 - 14:55** Mechanisms of compaction band formation in porous sandstone: grain scale characterisation
E.M. Charalampidou, H. Lewis, G. Couples H(eriott-Watt University. Edinburgh, UK), S. Hall, G. Viggiani (3S-R CNRS, UJF, INPG), S. Stanchits (Deutsches GeoForschungsZentrum GFZ, Germany)
- 14:55 - 15:20** Physical modelling of localization of deformation in pure frictional and cohesive-frictional material
Lars Röchter, T. Schanz, Laboratory of Foundation Engineering, Soil and Rock Mechanics, Ruhr-Universität Bochum, Germany
- 15:20 - 15:35 COFFEE BREAK**
- 15:35 - 16:00** A micro-scale model of quasi-brittle evolution of damage
A.-M. Dobrovat, C. Dascalu, S. Hall (Laboratoire 3S-R, Grenoble, France)
- 16:00 - 16:25** Modelling of hydro-mechanical coupling in saturated porous media containing cavities by two homogenisation methods
J. Lewandowska (UJF, Lab3S-R, Grenoble, France) D. Kondo (Université de Lille, Laboratoire LML, France)
- 16:25 - 16:50** On the micromechanical modelling of damage and applications to some geotechnical problems
S. Levasseur, F. Collin, R. Charlier (Université de Liège, Belgium), Q. Zhu (Laboratoire de Modélisation et Simulation Multi Echelle – Université Paris Est, France), D. Kondo (Université de Lille, Laboratoire LML, France)
- 17:00 – 17:45 Alert PhD Prize 2009**
- 17:45 – 19:00 Alert Invited Lecture 2009:**
Hazard and Risk Assessment for Landslides and Tsunamis
Prof. Suzanne Lacasse (Norwegian Geotechnical Institute)
Discussion
- 19:15 Alert Board of Directors**
- 19:30 – 20:30 Poster Session**
- 20:30 Banquet**



20th Alert Workshop Program Aussois, October the 14th 2009

Session III: Erosion in Geomaterials

Coordinators: Ioannis Vardoulakis (NTUA), Stéphane Bonelli (CEMAGRF)

- 8:30 - 8:40 Morning session opening**
I. Vardoulakis, S. Bonelli
- 8:40 - 9:10 Keynote lecture**
The Mechanics of initiation and progression of concentrated leak erosion in dams
R. Fell (University of New South Wales, Australia)
- 9:10 – 9:35** Initiation of internal erosion in hydraulic structures
J.-J. Fry (EDF-Hydro Engineering Center, France)
- 9:35 – 10:00** Experimental identification of mobile particles in suffusible non-cohesive soils
M.R.S. Sadaghiani, O. Semar, K.J. Witt (Bauhaus-Universität Weimar, Germany)
- 10:00– 10:25** Modelling consequences of changing grading through suffusion
D.M. Wood (University of Bristol, United Kingdom)
- 10:25 – 10:50** Erosion-induced deformations in soils
P.-Y. Hicher (Research Institute in Civil and Mechanical Engineering, France), C. Chang (University of Massachusetts, USA)
- 10:50 – 11:05 COFFEE BREAK**
- 11:05 – 11:30** Sand production in cavity tests under oil and/or water flow
E. Papamichos (Aristote University of Thessaloniki, Greece), JF Stenebråten, P Cerasi (SINTEF Trondheim, Norway)
- 11:30 – 11:55** Internal erosion in cohesionless soils: a multi-phase model on multiple scales
H. Steeb (Ruhr-Universität Bochum, Germany), A. Scheuermann (University of Karlsruhe, Germany)
- 11:55 – 12:20** Quantification of erodible fines as basis for modelling internal erosion
A. Scheuermann (University of Karlsruhe, Germany), H. Steeb (Ruhr-Universität Bochum, Germany)
- 12:30 – 14:00 LUNCH**
- 14:00 – 14:25** Energy analysis of two types of surface erosion tests
P.-L. Regazzoni, D. Marot (Research Institute in Civil and Mechanical Engineering, France), T. Whal (U. S. Bureau of Reclamation Federal Center, USA)
- 14:25 – 14:50** Bed load transport by laminar shearing flows
P. Aussillous (IUSTI Marseille, France), M. Ouriemi (IFP-Lyon, France), E. Guazzelli (IUSTI Marseille, France)
- 14:50 – 15:15** Fluid flow induced deformation of porous media
J. Gunnar I. Hellström, T. S. Lundström, V. Frishfelds ((Luleå University of Technology, Sweden)

- 15:15 – 15:40** Discrete element method with particle-gas interactions
F. Dubois, A. Martin (LMGC Montpellier, France), Y. Monerie (IRSN Cadarache, France), F. Radjai (LMGC Montpellier, France)
- 15:40 – 15:55** **COFFEE BREAK**
- 15:55 – 16:20** Transport of mass through granular media including a characteristic at the micro-scale
N. Reboul, E. Vincens (LTDS Lyon, France), B. Cambou (INRETS, France)
- 16:20 – 16:45** Modeling, with a unified level-set representation, of the erosion of a hollow in the ground under different physical phenomena
R. Cottreau (LMSSMat Paris, France), P. Diez, A. Huerta (Universitat Politècnica de Catalunya, Spain)
- 16:45 – 17:10** Three-dimensional numerical modelling of interfacial erosion
F. Golay, D. Lachouette (Cemagref & Université du Sud Toulon - Var, France), P. Seppecher (Université du Sud Toulon - Var, France), S. Bonelli (Cemagref France)



20th Alert Doctoral School
October, Thursday 15th 2009

Failure in multiphase geomaterials

Coordinators:

Lyesse Laloui (EPFL Lausanne, Switzerland)

Frédéric Collin (Université de Liège, Belgium)

Vincenzo De Gennaro (Ecole des Ponts ParisTech, France)

- 8:30 – 8:45** **Introduction: content and structure of the school**
L. Laloui, F. Collin, V. De Gennaro
- 8:45 – 9:45** **Failure in geomaterials: part I**
R. Nova
- 9:45 – 10:15** **COFFEE BREAK**
- 10:15 – 11:15** **Failure in geomaterials: part II**
R. Nova
- 11:15 – 12:15** **Multi-physical processes in geomechanics - an introduction to constitutive modelling and coupling aspects: part I**
R. Charlier
- 12:15 – 14:00** **LUNCH**
- 14:00 – 15:30** **Multi-physical processes in geomechanics - an introduction to constitutive modelling and coupling aspects: part II**
R. Charlier
- 15:30 – 16:00** **COFFEE BREAK**
- 16:00 – 18:00** **Thermally and chemically induced failure in geomaterials: part I**
T. Hueckel
- 20:00** **DINNER**



20th Alert Doctoral School
October, Friday 16th 2009

Failure in multiphase geomaterials

Coordinators:

Lysesse Laloui (EPFL Lausanne, Switzerland)

Frédéric Collin (Université de Liège, Belgium)

Vincenzo De Gennaro (Ecole des Ponts ParisTech, France)

8:30 – 9:30	Thermally and chemically induced failure in geomaterials: part II <i>T. Hueckel</i>
9:30 – 10:30	Mechanical damage, chemical damage and permeability in quasi-brittle cementitious materials: part I <i>G. Pijaudier-Cabot</i>
10:30 – 11:00	COFFEE BREAK
11:00 – 12:00	Mechanical damage, chemical damage and permeability in quasi-brittle cementitious materials: part II <i>G. Pijaudier-Cabot</i>
12:00 – 13:30	LUNCH
13:30 – 16:00	Multiphysics aspects of seismic slip <i>J. Sulem</i>
16:00 – 16:30	COFFEE BREAK
16:30 – 18:30	Advanced multiphysical testing for soft rocks <i>V. De Gennaro</i>
20:00	DINNER



20th Alert Doctoral School
October, Saturday 17th 2009

Failure in multiphase geomaterials

Coordinators:

Lyesse Laloui (EPFL Lausanne, Switzerland)

Frédéric Collin (Université de Liège, Belgium)

Vincenzo De Gennaro (Ecole des Ponts ParisTech, France)

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|----------------------|---|
| 8:30 – 10:00 | Applications of multiphysical geomechanics in underground nuclear waste storage: part I
<i>A. Gens</i> |
| 10:00 – 10:30 | COFFEE BREAK |
| 10:30 – 11:30 | Applications of multiphysical geomechanics in underground nuclear waste storage: part II
<i>A. Gens</i> |
| 11:30 – 12:30 | Desiccation cracking of soils: part I
<i>L. Laloui</i> |
| 12:30 – 13:45 | LUNCH |
| 13:45 – 14:45 | Desiccation cracking of soils: part II
<i>L. Laloui</i> |
| 14:45 – 16:45 | Numerical post failure methods in multiphysical problems
<i>F. Collin</i> |
| 16:45 – 17:00 | SCHOOL CLOSURE BY THE COORDINATORS |

20th ALERT Workshop and School

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