

## Wednesday, 19th November, 2008

8h45 - 9h15 Registration

9h15 - 9h30 Welcome

### Session 1 - Temperature effects

Chair: Olivier COUSSY (Ecole des Ponts ParisTech, France)

Co-chair: Francesca D'ONZA (Univ. of Glasgow, United Kingdom)

#### Rapid landslides. The legacy of Vaiont

9h30 - 10h15

#### Invited Lecture: Prof. Eduardo ALONSO (UPC, Spain)

10h15 - 10h25 Discussion

10h25 - 10h45 Coffee break

10h45 - 11h20 Thermal pressurization and anomalous thermal expansion of the pore fluid of a hardened cement paste  
*S. Ghabezloo* *Ecole des Ponts ParisTech*

11h20 - 11h55 Aspects of thermo-hydro-mechanical simulation of a prototype repository in fractured rock  
*Ph. Vardon* *Cardiff University*

11h55 - 12h30 Thermo-plasticity of soils at various saturation states: a constitutive model  
*B. François* *EPFL*

12h30 - 13h00 Discussion

13h00 - 14h30 Lunch

### Session 2 - Unsaturated Soils Modelling

Chair: Marcelo SANCHEZ (University of Strathclyde, United Kingdom)

Co-chair: Hoda MOSTAFA (Univ. of Cairo, Egypt)

14h30 - 15h05 Hydro-mechanical coupling in unsaturated compacted clayey soils: modelling the water retention behaviour  
*G. Della Vecchia* *Politecnico Milano*

15h05 - 15h40 Considering the coupling of water retention and mechanical behaviour in unsaturated soils  
*M. Lloret* *Univ. Strathclyde*

15h40 - 16h00 Coffee break

16h00 - 16h35 Calibration methods of a constitutive model for partially saturated soils: a benchmarking exercise within the MUSE network  
*F. D'Onza* *Univ. of Glasgow*

16h35 - 17h00 DISCUSSION

17h00 Cocktail

Thursday, 20<sup>th</sup> November, 2008

### Session 3 - Non Conventional Testing

Chair: Cristina JOMMI (Politecnico di Milano, Italy)

Co-chair: Nawel CHENAF (LCPC, France)

#### Long-term effects of geotechnical processes

9h30 - 10h15

#### Invited Lecture: Prof. Kenichi SOGA (Univ. of Cambridge, United Kingdom)

10h15 - 10h25

Discussion

10h25 - 10h45

#### Coffee break

10h45 - 11h20

Measurements of the diffusion properties of carbonate caprocks altered by CO<sub>2</sub>, using radioactive tracers

*P. Bachaud*

*CEA Grenoble*

11h20 - 11h55

The nanogranular origin of concrete creep: a nanoindentation investigation

*M. Vandamme*

*Ecole des Ponts ParisTech*

11h55 - 12h30

Mechanical behaviour and rupture in clayey rocks studied by X-ray microtomography and 3D-digital image correlation

*N. Lenoir*

*UJF - L3S*

12h30 - 13h00

Discussion

13h00 - 14h30

#### Lunch

### Session 4 - Structured Soils

Chair: Kenichi SOGA (Univ. of Cambridge, United Kingdom)

Co-chair: Ioannis STEFANOOU (NTUA, Greece)

14h30 - 15h05

Physical and mechanical characterization of deep water marine sediments

*M.H. Le*

*IFP*

15h05 - 15h40

Experimental study on the structural changes of compacted marls

*R. Cardoso*

*IST*

15h40 - 16h00

#### Coffee break

16h00 - 16h35

Constitutive modelling of bonded expansive geomaterials

*N. Pinyol*

*UPC*

16h35 - 17h00

DISCUSSION

20h30

Workshop Banquet (Restaurant "le Petit Zinc", Paris 6<sup>ème</sup>) \*

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Invited dinner for young doctors and discussion leaders

Reservations in the same restaurant for external participants are possible (limited number of places)

Please contact Organisation for further information

Friday, 21st November, 2008

## Session 5 - Physical Modelling

Chair: David TOLL (Durham University, United Kingdom)

Co-chair: Nuria PINYOL (UPC, Spain)

### Relations between science and (geotechnical) engineering

9h30 - 10h15

**Invited Lecture: Prof. Carlo VIGGIANI (Università di Napoli Federico II, Italy)**

10h15 - 10h25

Discussion

10h25 - 10h45

Coffee break

10h45 - 11h20

Effects of partial saturation on the behaviour of a compacted silt

*F. Casini*

*ETZH*

11h20 - 11h55

The kinematic and inertial soil-pile interactions: centrifuge modelling

*N. Chenaf*

*LCPC*

11h55 - 12h30

Liquefaction susceptibility evaluation and hazard mapping using geographic information system (GIS)

*H. Mostafa*

*Tufts University & Cairo University*

12h30 - 13h00

Discussion

13h00 - 14h30

Lunch

## Session 6 - Miscellaneous

Chair: Eduardo ALONSO (UPC, Spain)

Co-chair: Francesca Casini (ETZH, Switzerland)

14h30 - 15h05

Relation between tensile strength and fracture toughness for soils and rocks

*M.R. Lakshmikantha*

*UPC*

15h05 - 15h25

Coffee break

15h25 - 16h00

Homogenization of interlocking masonry walls

*I. Stefanou*

*NTUA*

16h00

DISCUSSION & CLOSURE

16h30

End workshop