

**International Conference on  
Creep and Deformation Characteristics in Geomaterials**

Chalmers University of Technology, Gothenburg, Sweden

Scania Room, Chalmers Conference Centre, Johanneberg Campus

August 24-25 2015

Monday August 24, 2015

09:30 – 10:15 *Registration with Tea, Coffee & bread roll*

10:15 – 10:30 *Opening*

Associate Prof. Jelke Dijkstra & Prof. Gustav Grimstad

**10:30 – 11:15 Keynote presentation**

*Experimental study of viscoplastic mechanisms in clay under complex loading*

P.-Y. Hicher

11:15 – 11:30 Comfort Break

**11:30 – 13:00 Session: Modelling of clays**

11.30 – 12.00 *A new elasto-viscoplastic model for 1-d compressive behavior of clays*

Y. Yuan & A.J. Whittle

12.00 – 12.30 *Effect of sample disturbance on evaluated creep parameters for a high plasticity clay*

M. Karlsson, A. Bergström, J. Dijkstra & A. Emdal

12.30 – 13.00 *On estimation of parameters describing soil structure and anisotropy for CREEP-SCLAY1S*

J.-P. Gras, J. Dijkstra & M. Karstunen

13.00 – 14:00 <b>Lunch at the Foyer</b>
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**14:00 – 14:45 Keynote presentation**

*Creep effects on the clays from Mexico basin*

E. Ovando-Shelley

**14:45 – 15:45 Session: From models to practice**

14.45 – 15.15 *Is creep analysis creeping into practice?*

G. Grimstad, M. Mehli & S.A. Degago

15.15 – 15.45 *A procedure for determining long-term creep rates of soft clays by triaxial testing*

H.P. Jostad & J. Yannie

15:45 – 16:15 **Tea & coffee**

**16:15 – 17:15 Session: Modelling of Peat**

16.15 – 16.45 *A framework for peat behaviour based on hyperplasticity principles*

D. Boumezerane, G. Grimstad & A. Makdisi

16.45 – 17.15 *An overlay model for peat*

J.A.M. Teunissen & C. Zwanenburg

18:15 – 20:30 **Conference dinner at Restaurant Hyllan**

Tuesday August 25, 2015

**09:30 – 10:15 Keynote presentation:**

*Material Creep, characteristic times, and patience*

I. Einav

10:15 – 10:45 **Tea & coffee**

**10:45 – 12:15 Session: Applications**

10:45 – 11:15 *Creep of sand in filled open cast mining pits*

F. Levin & S. Vogt

11:15 – 11:45 *Creep behavior of soil nail walls in high plasticity clays: laboratory investigation, field monitoring and numerical modeling*

M. Sanchez, M. Mahdavi, J.-L. Briaud & G. Bin

11:45 – 12:15 *A probabilistic approach for calculation of land subsidence on a macro-scale*

J. Sundell, L. Rosén, C. Alén, M. Karlsson & E. Haaf

12:15 – 13:15 **Lunch & coffee**

**13:15 – 14:00 Keynote presentation:**

*On the computational modelling of strain rate effects in high-temperature alloys*

Kenneth Runesson

**14:00 – 15:00 Session : Modelling frozen soils**

14:00 – 14:30 *A hypoplastic creep model for frozen soil*

G.F. Xu, W. Wu & J.L. Qi

14:30 – 15:00 *A new concept in developing a constitutive model for frozen soils*

S. A. Ghoreishian Amiri, M. Kadivar & G. Grimstad

15:00 – 15:30 **Tea & coffee**

**15:30 – 16:30 Session: Modelling of creep in stiff materials**

15.30 – 16.00 *Viscoplastic subloading modelling of strain rate change effects in London clay*

J.R. Maranha, C. Pereira & A. Vieira

16.00 – 16.30 *Back calculation of triaxial extension creep tests on a tertiary clay*

N. Sivasithamparam, H.P. Jostad & P. Fornes

16.30 – 17.00 *Creep mechanisms in soil and crystalline rock and mathematical formulation of them based on stochastical mechanics*

R. Pusch

**17:00-17.15 Final discussion and closure**