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CHALMERS

CREEP partners:

Norwegian University of Science and Technology (NTNU),
Trondheim, Norway

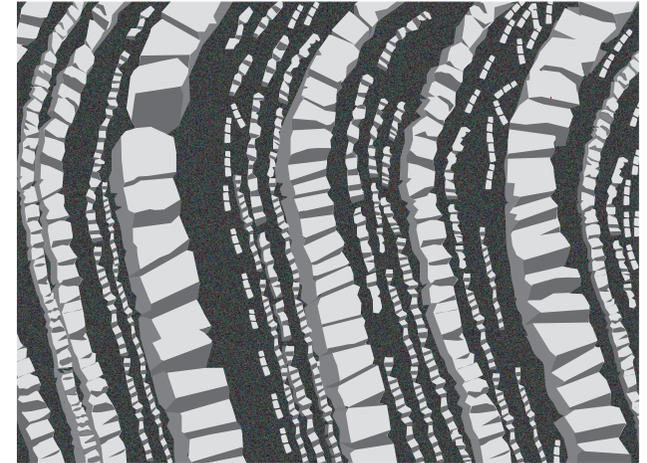
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INTERNATIONAL
CONFERENCE
ON CREEP
AND DEFORMATION
CHARACTERISTICS IN
GEOMATERIALS

24-25 August 2015,
Gothenburg, Sweden



Arranged by:
Division of GeoEngineering
Department of Civil Engineering
Chalmers University of Technology



Invitation

The partners of the European Marie Curie Industry-Academia Pathways and Partnership project on Creep of Geomaterials (FP7/2007-2013, CREEP-PIAG-GA-2011-286397) warmly invite you to participate in the closing conference for this project. This is an opportunity to discuss and share state of the art knowledge on creep and deformation characteristics of geomaterials and other porous media, with focus on geotechnical engineering challenges.

The aim of the conference

Geotechnical engineering often involves designing structures built on, in or of natural or improved soils. Increasingly, long-term behaviour needs to be accounted for in the consideration of stability and deformation of geotechnical structures. In the context of major infrastructure projects, long-term refers to a period of decades. Given that the soil often governs the response of geotechnical structures, an in-depth understanding of the material behaviour is of paramount importance. An additional complication is that the material response is influenced by the stress history of the material, resulting from geological, environmental and building processes.

The fact that natural soils are complex geomaterials, exhibiting strength and stiffness anisotropy, structure and rate-dependent behaviour, makes analysis of geotechnical problems challenging. In particular, the rate-dependent behaviour in clays, peats and frozen soils is poorly captured in existing models, both on the particulate level and on the continuum scale. With regards of the latter, the models available in general software for Finite Element Analysis (FEA) are inadequate.

The aim of the conference is to provide an international forum for presenting and discussing the latest developments in monitoring, analysing and managing long-term deformations in geotechnical engineering. Creep and rate-dependency is also an important mechanism in other engineering materials, such as concrete and polymers. Papers on any aspect of this subject are most welcome. Active discussion on key topics will be facilitated through invited keynote lectures. In addition, the partners of the CREEP project will present some of the highlights of their research programme, achieved through intense collaboration between industry and academia. The results include new numerical tools for modelling large boundary value problems, new rate-dependent constitutive models, and validation of boundary value problems using results from real field applications

Venue

The conference will be held at the Chalmers Conference Centre located at the Johanneberg Campus of the Chalmers University of Technology in Gothenburg, Sweden.

Registration Fees

Registration fees will include attendance of the conference, conference proceedings, welcome reception, lunches and refreshment breaks. As the number of places is limited, please register early to avoid disappointment.

Standard rate: 3000 sek + VAT (registration before 1 June 2015)
4000 sek + VAT (registration after 1 June 2015)

Student rate: 1500 sek + VAT (registration before 1 June 2015)
2000 sek + VAT (registration after 1 June 2015)

CREEP members: 1500 sek + VAT

Conference Topics

The conference topics are related to constitutive modelling of creep mechanisms in natural soils and granular media on the continuum and particulate level, as well as the application of those models in real world boundary value problems. Finally, a session is devoted to cover other engineering materials and states, such as frozen soil, steel or polymers. The following key topics are identified:

- Constitutive modelling of creep in geomaterials
- Numerical analysis of creep in geotechnical engineering
- Physics of creep in granular media
- Creep in other materials

Keynote Speakers

Prof. Efraim Ovando-Shelley (*Universidad Nacional Autónoma de México, Mexico*)

Prof. Itai Einav (*The University of Sydney, Australia*)

Prof. Pierre-Yves Hicher (*École Centrale de Nantes, France*)

Prof. Kenneth Runesson (*Chalmers University of Technology*)

Call for Papers

The conference website

<http://conferences.chalmers.se/index.php/ICCG/ICCG15/> will allow for online submission of 4 page extended abstracts for the conference proceedings. The Authors of the best extended abstracts will be invited to write a full manuscript for a special issue of the European Journal of Civil Engineering, subject to a separate peer review, after the conference.

IMPORTANT DATES

Submission deadline:	30 April 2015
Acceptance/revision notification:	14 May 2015
Early bird registration before:	1 June 2015
Late registration possible until:	15 August 2015
Conference:	24-25 August 2015

Language

The official language of the conference is English.

Conference Proceedings

Accepted papers will be published in the conference proceedings.

