INTERNATIONAL WORKSHOP
FOR GEOTECH
Holistic Simulation of Geotechnical Installation Processes
March 6.- 7., 2014
Karlsruhe
KIT Campus Süd
Building 50.41 (AVG)
1st floor, lecture hall R 145/146

Please register before February 14, 2014

Return address:
Karlsruhe Institute of Technology (KIT)
Institute for Soil Mechanics and Rock Mechanics
Director: Univ. Prof. Dr.-Ing. habil. Thriantafyllidis
Campus Süd, Building 40.2
Engler-Bunte-Ring 14
P. O. Box 6980
76131 Karlsruhe
76128 Karlsruhe
Phone: 0721 608-42221, -42220, Fax: 0721 69 60 96
E-Mail: wsgeotech@ibf.kit.edu

www.ibf.uni-karlsruhe.de
Program

March 6, 2014

11:00 Introduction/Welcome Address/Opening Remarks

11:15 Invited Speaker: Jung Yang, (The University of Hong Kong): "Liquefaction behaviour of sand under non-symmetrical cyclic loading conditions"

11:45 Invited Speaker: Andrew J. Whittle, (MIT, USA): "Simulation of Clay Aggregation and its Importance in Multi-Scale Modeling of Geomaterials"

12:00 Invited Speaker: Andrew J. Whittle, (MIT, USA): "Simulation of Clay Aggregation and its Importance in Multi-Scale Modeling of Geomaterials"

12:45 Lunch

14:00 (TP 1): A. Niemunis, I. Loges, F. Prada: "Neohypoplasticity – current developments and future directions"

14:30 (TP 2): W. Ehlers, M. Schenke, B. Markert: "Stability of soil under cyclic loading conditions"

15:00 (TP 3): P. Dziewiecki, C. Weißenfels, P. Wriggers: "Modeling of soil-structure interaction by applying a hypoplastic material behavior within mortar contact formulation"

16:00 Invited Speaker: Jung Yang, (The University of Hong Kong): "Field study of the behaviour of jacked and driven steel H-piles in sandy soils"

16:45 (TP 5): D. Aubram, S. Savidis, F. Rackwitz: "Multi-material elements in Eulerian methods for geotechnical problems"

17:15 End of the 1st workshop day

March 7, 2014

09:00 TP (6): V. A. Osinov: "Modelling soil liquefaction around a vibrating pile. The influence of soil permeability"

09:30 (ZP): J. Vogelsang, H. Zachert, G. Huber, T. Triantafyllidis: "Effects of soil installation on the initial stress state in model tests: Experimental results and FE simulation" (15')

09:45 (ZP): J. Vogelsang, G. Huber, T. Triantafyllidis: "On soil deformation and stress redistribution around pressed-in and vibrated displacement pile tips" (20')

10:15 Coffee Break

10:45 Invited Speaker: Kjell Karlsrud, (NGI, Norway): "Installation stresses, time for set-up and ultimate shaft friction for piles in clay"

11:30 W. Fuentes, Th. Triantafyllidis: "On the finite element modelling of the behaviour of deposited materials"

12:00 (TP 8): Stefanie Danne, A. Hettler: "Experimental Strain Response Envelopes of granular materials for monotonous and low cycle loading processes" (20')

(TP 8): Andrea Sindern, A. Hettler: "Preliminary considerations of the FE-modelling of the geotechnical construction processes at the DEBIS-excavation at Potsdamer Platz, Berlin" (10')

12:30 Closing remarks

12:35 Lunch (together with poster session)

End of the workshop

The number of participants is limited to a maximum of 80 persons. The participation fee of € 100.-person includes lunches and coffee breaks costs as well as copies of the workshop lectures which will be submitted to the participants after completion. The workshop contributions will be published together with the contributions of the second workshop by Axel Springer Publishing House. We recommend bank transfer to the account KIT Karlsruhe Nr. 66001508, BLZ 660 000 00 at the German Bundesbank, subsidiary Karlsruhe, IBAN DE 57 6600 0000 0066 0015 08, SWIFT MARK DE F 1660 as early as possible to ensure participation on the first-come-first-served basis. Late registration is only possible if the number of participants does not exceed the number of 80.