

Leave the highway A5 at the exit „Karlsruhe-Durlach“ and continue towards “Karlsruhe-Stadtmitte” (not KA-Durlach!). Follow the traffic signs “KIT CAMPUS SÜD” until Adenauer Ring. Leave Adenauer-Ring after about 400m at entrance 1 and follow the traffic signs for parking. Parking space is very limited and usually occupied after 8.00 a.m. since parking is free. Take care of short dated route changes due to construction works!

Arriving at the main station you can take either the tram line no. 2 ("Wolfartsweier"), tram line no. 4 ("Waldstadt") or tram line no. S4 ("Bretten, Eppingen, Heilbronn"), in either case leave the tram at the stop "Durlacher Tor" (see the "H"-symbol on the sketch). Walking distance about 600m to building 50.41. (Please be aware of possible changes of tram lines because of construction works!)

Return address:
Karlsruhe Institute of Technology (KIT)
Institute for Soil Mechanics und Rock Mechanics
Director: Univ. Prof. Dr.-Ing. habil. Th. Triantafyllidis
Campus Süd, Building 40.22
Engler-Bunte-Ring 14
76131 Karlsruhe

P. O. Box 6980
76128 Karlsruhe

www.ibf.kit.edu

Holistic Simulation of Geotechnical Installation Processes

February 23.-24., 2017

Karlsruhe

KIT Campus Süd

Building 50.41 (AVG)
1st floor, lecture hall R 145/146



 Universität Stuttgart

Leibniz
Universität
Hannover

tu technische universität
dortmund

Preliminary Program

(subject to changes)

February 23, 2017

- 11:00 Introduction/Welcome Address/
Opening Remarks
- 11:15 **Invited Speaker:** K. Karlsrud (NGI):
*"Recent field tests verify significant
impact of ageing on the bearing capacity
of driven piles"*
- 12:00 **Invited Speaker:** R. Finno et al.
(Northwestern University, USA):
*"Adaptive management evaluation
of the SQBR excavation"*
- 12:45 Lunch**
- 14:00 (ZP) J. Vogelsang, G. Huber,
Th. Triantafyllidis (KIT):
*"Stress paths on displacement piles
during monotonic and cyclic penetration"*
- 14:30 **Invited Speaker:** W. Fuentes et al.
(Universidad del Norte, Colombia):
*"Evaluating the performance of an ISA-
Hypoplasticity constitutive model on
problems with repetitive loading"*
- 15:00 (TP5) D. Aubram, F. Rackwitz,
S.A. Savidis, (TU Berlin):
*"Contribution to the non-Lagrangian
formulation of geotechnical and
geomechanical processes"*
- 15:30 Coffee Break**
- 16:00 (TP1) A. Niemunis, C. Grandas (KIT):
*"Neohypolasticity and its computer aided
calibration"*

- 16:30 (TP6) V.A. Osinov (KIT):
*"Some aspects of the boundary value
problems for the cyclic deformation of soil"*

17:00 End of the 1st workshop day

- 19:30 Dinner** (self payers)

February 24, 2017

- 09:00 **Invited Speaker:** A. Whittle (MIT, USA):
*"Effects of ground improvement applied in
excavation support systems in soft clay"*
- 09:45 **Invited Speaker:** M. Taiebat
(Univ. of British Colombia, Canada):
*"A zero elastic range hypoplasticity model
for sand"*
- 10:30 Coffee Break**
- 11:00 (ZP) J. Vogelsang, G. Huber,
Th. Triantafyllidis (KIT):
*"Experimental investigation of vibratory pile
driving in saturated sand"*
- 11:30 (TP 6) S. Chrisopoulos, J. Vogelsang,
Th. Triantafyllidis (KIT):
*"FE simulation of model tests on
vibratory pile driving in saturated sand"*
- 12:00 (TP 8) Carla Henning, Andrea Thom,
A. Hettler (TU Dortmund):
*"Numerical investigations on the effects of
dynamic manufacturing processes on
deep excavation walls"*
- (TP8) Stefanie Danne, A. Hettler
(TU Dortmund):
*"Total and quasi-elastic strains due to
monotonous and low-cycle loading by
means of experimental and numerical
element tests"*

12:30 Lunch

- 13:30 Nina Müthing, T. Barciaga, T. Schanz
(RUB Bochum):
"Cyclic response of natural Onsoy clay"
- 14:00 (TP2) M. Schenke, B. Markert, W. Ehlers,
(Univ. Stuttgart):
*"Simulation of geotechnical installation
processes within an elasto-plastic TPM-
based framework"*
- 14:30 (TP3) C. Weißenfels, Ajay B. Harish,
P. Wriggers (Leibniz Univ. Hannover):
*"Strategies to apply soil models directly as
friction laws in soil structure interactions"*
- 15:00 Merita Tafili, Th. Triantafyllidis (KIT):
*"ISA model for cyclic and monotonic
behaviour of clays"*
- 15:30 Coffee break**
- 16:00 Poster Session
- 16:30 End of the workshop**

The number of participants is limited to a maximum of 80 persons. The participation fee of € 120.-/person includes lunches and coffee breaks costs as well as copies of the workshop abstracts which will be distributed to the participants on registration. The workshop contributions are published by Axel Springer Publishing House. The book will be distributed among the participants and is included in the participation fee.

We recommend bank transfer to the account KIT Karlsruhe LBBW/BW Bank, IBAN: DE446005 0101 7495 5001 49, BIC/SWIFT: SOLADEST600 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.