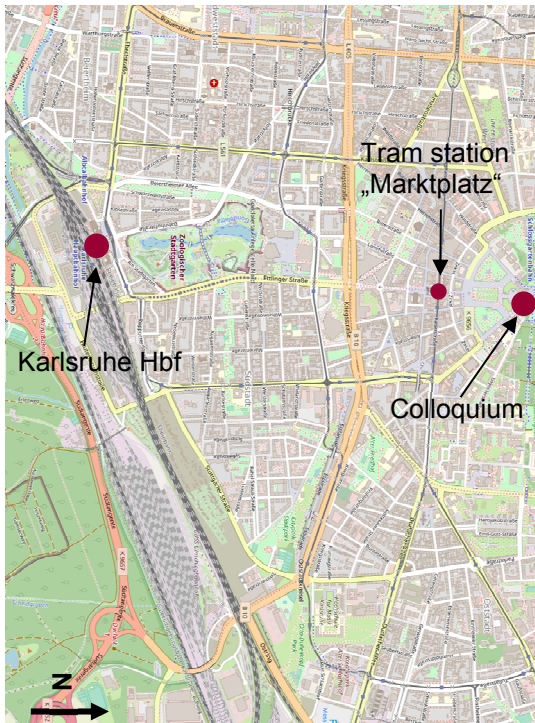


City of Karlsruhe Site map



Travelling by train:

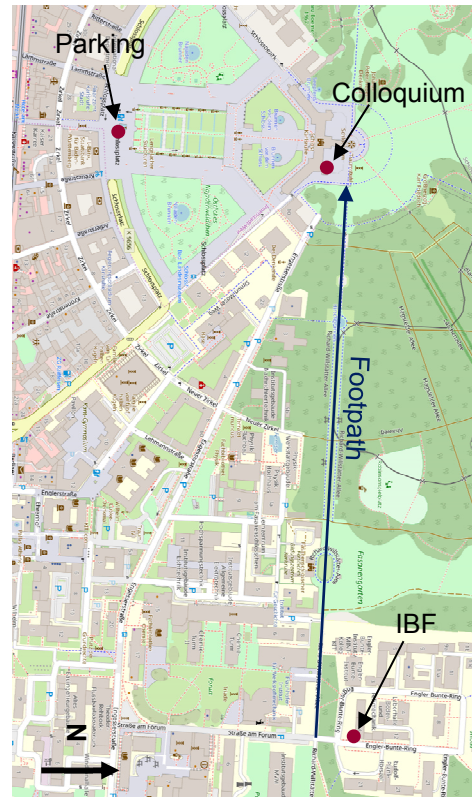
From Karlsruhe main station the trams S1, S11, S51 and tram number 4 take you to the market square. From there it is only a few minutes to walk.

Travelling by car:

Via the A 5 direction Frankfurt / Basel or the A 8 direction Stuttgart / Mannheim / Frankfurt you reach Karlsruhe. After the exit "Zentrum" a white signage "Schloss" leads to the Badisches Landesmuseum. You can park your car in the Schlossplatz underground car park (open 24 hours).

Used maps © OpenStreetMap

Gartensaal/The Castle of Karlsruhe Detailed Map, Schlossbezirk 10, Karlsruhe



Return address:

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Geotechnik Kolloquium

*„Beiträge der Bodenmechanik und
Geotechnik in Theorie und Praxis“*

Colloquium on Geotechnical Engineering

*“Recent Contributions of
Soil Mechanics and Geotechnics in
theory and practice”*

September 26-27, 2019

Gartensaal/Schloss (Castle) Karlsruhe
Schlossbezirk 10, 76131 Karlsruhe



Programme

September 26, 2019

Start of registration from 09.00 a.m.

**10:00 Introduction/Welcome Address/
Opening Remarks**

Session 1: "Numerical modelling in geotechnical engineering", *Moderation:* Th. Triantafyllidis

10:10 Niemunis, A. (KIT/IBF):
"On FE modeling of two-phase media using the up-discretization"

10:40 Rackwitz, F. (TU Berlin):
"Possibilities and limitations of ALE large deformations analyses in geotechnical engineering"

11:10 Zachert¹, H. / Wichtmann², T.:
"Approaches for the design of foundations for offshore wind turbines – A review based on comparisons with HCA-based models"
¹TU Darmstadt/ ²RUB Bochum

**11:40 Lunch
13:00**

Session 2a: "Constitutive and numerical modelling", *Moderation:* A. Whittle

13:00 Herle¹, I. / Shi², X.S. / Karcher³, C.:
"Constitutive modelling of multiporous lumpy soils"
¹TU Dresden/ ²HUK/ ³RWE Power AG

13:30 Selvadurai, A.P.S. (McGill University/Canada):
"Geomechanical influences of interface dilatancy"

14:00 Tafili, M. / Triantafyllidis, Th. (KIT/IBF):
"State-dependent dilatancy of soils: experimental evidence and constitutive modeling"

**14:30 Coffee break
15:00**

Session 2b: "Experiments and numerical modelling", *Moderation:* R. Cudmani.

15:00 Wichtmann¹, T. / Knittel², L.:
"Behaviour of granular soils under uni- and multidimensional drained high-cyclic loading"
¹RUB Bochum / ²KIT/IBF

15:30 Grandas, C., / Triantafyllidis, Th. / Knittel, L.: (KIT/IBF): "A constitutive model with a historiotropic yield surface for sands"

Session 3: "Special foundation engineering or Geotechnics", *Moderation:* J. Yang

16:00 Cudmani, R. / Rebstock, D / Schorr, J. (TUM):
„Geotechnical challenges for the numerical prediction of the settlement behaviour of foundations in Rosenheim’s seeton“

16:30 Beckhaus, K. (Bauer Spezialtiefbau GmbH):
"Diaphragm wall technique – planning, execution and development over the last 65 years"

17:00 Baeßler¹, M. / Cuellar¹, P. / Lüddecke², F. / Victor² A.: "Stability and large deformations of slender structures supported by soil materials"
¹BAM, Berlin/ ²Jörss-Blunck-Ordemann GmbH, Hamburg

17:30 End of the 1st workshop day

September 27, 2019

Session 4: "Renaturation of open cast mining", *Moderation:* T. Wichtmann

10:00 Dahmen, D. (RWE Power AG):
"Geotechnical aspects in designing the permanent slopes of future lakes in opencast mines in the Rhenish lignite mining area"

10:30 Machaček, J. / Grandas, C. / Triantafyllidis, Th. (KIT/IBF): "Coupled numerical simulations for seismic hazard assessment of large opencast slopes"

Session 5: "Soil and structural dynamics", *Moderation:* T. Wichtmann

11:00 Yang J. (HKU, Hong Kong):
"Shear wave based screening method for liquefaction evaluation"

11:30 Polyzos¹, D. / Ahmadi², A.B. / Livitsanos², G. / Aggelis², D.G. / Gortsas¹, Th. V.:
"A study on the wave dispersion in concrete due to damage; Numerical observations and theoretical predictions"
¹Univ. of Patras, ²Vrije Universiteit Brussel

**12:00 Lunch
13:15**

Session 6: "Infrastructure projects", *Moderation:* F. Rackwitz

13:15 Whittle, A. / Founta, V. (MIT/USA):
"Prediction and control of ground deformations for mechanized tunneling in clays with mixed face conditions"

13:45 Osinov, V.A. / Chrisopoulos, S. (KIT/IBF):
"Two neighbouring tunnels in saturated soil under blast loading"

14:15 Gerolymatou¹, E. / Petalas¹, A.:
"In situ stress assessment based on width and depth of brittle borehole breakouts"
¹Chalmers University of Technology, Sweden

**14:45 Coffee break
15:15**

Session 6 (continuation): "Special foundation engineering or Geotechnics", *Moderation:* M. Baeßler

15:15 Hettler¹, A. / Triantafyllidis², Th.:
"Excavation pits: Calculation methods"
(Presentation in German)
¹TU Dortmund / ²KIT/IBF, Karlsruhe

15:45 König, D. / v. Blumenthal, A. / Goudarzy, M. (RUB)
"Traces of Prof. Triantafyllidis in Bochum"

16:15 Huber, G. (KIT/IBF): "Ballast behaviour seen from a geotechnical point of view"

**16:45 Closing remarks
Moderation:** Th. Triantafyllidis

17:00 End of the workshop

19:30 Abendveranstaltung/Banquet
Akropolis-Restaurant, Ziegler Saal
Baumeisterstraße 18, 76137 Karlsruhe