

# Effective Stress in Multiphase Porous Media

Location: IC 03/604, Ruhr-Universität Bochum

Date: Thursday, 15th till Friday, 16th of September, 2016

## Motivation

To date there is an ongoing discussion about how to describe the effect of soil water interaction (in terms of suction) when dealing with the mechanical behavior of partially saturated soils.

One approach is to describe the macroscopic effect of suction in terms of effective stress. This has the fundamental advantage that classical soil mechanic principles can be applied to partially saturated soils.

A growing number of lab tests indicate that the effective stress concept is sufficient to describe macroscopic effects of soil water interaction when dealing with limit state, e.g. shear strength, related problems.

However, a systematic experimental validation, taking into account the full mechanical stress and suction range as well as different failure modes is still missing and different aspects of this approach are under discussion.

On this workshop the state of the art concerning this research field will be discussed. Different invited speakers will present their experimental data, analyze existing and new data sets and present theoretical background and investigations on the level of microstructure.

Bochum, June 2016

Tom Schanz

## Invited Speakers

Eduardo Alonso  
Maria Datcheva  
Itai Einav  
Alessio Ferrari  
Nassar Khalili  
Alessandro Tarantino  
Snehasis Tripathy  
Jean Vaunat

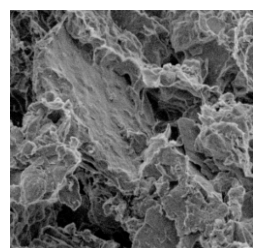
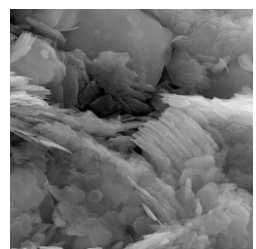
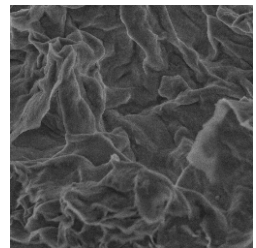
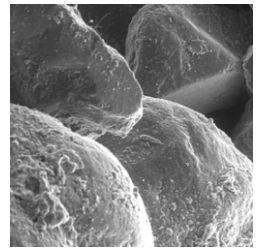
Polytechnic University of Catalonia  
Bulgarian Academy of Sciences  
University of Sidney  
École Polytechnique Fédérale de Lausanne  
University of New South Wales  
University of Strathclyde  
Cardiff University  
Polytechnic University of Catalonia

## Save the date!

### Contributors

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## Contact

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## Registration

- by E-Mail: [conference-gbf@rub.de](mailto:conference-gbf@rub.de)
- or Fax: +49 2343214236

Mr.  Mrs.  Title: \_\_\_\_\_

Name: \_\_\_\_\_

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City: \_\_\_\_\_

Country: \_\_\_\_\_

Phone: \_\_\_\_\_

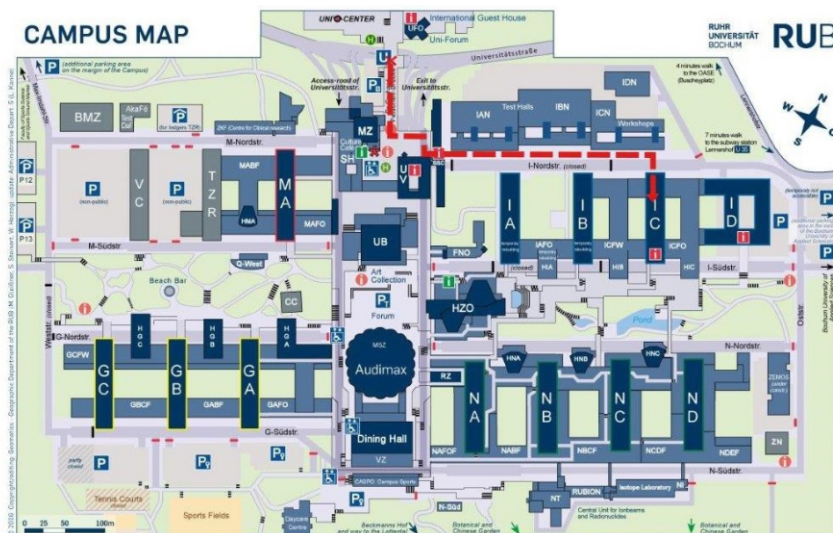
E-Mail: \_\_\_\_\_

Course fee: 150,-€ (invoice will be sent after registration)

Place, Date \_\_\_\_\_

Signature \_\_\_\_\_

A list of recommended hotels near the venue will be sent to you along your booking confirmation.



## Travel by public transport

At Bochum's main train station, ICE, IC, EC, regional trains and city trains arrive and depart in quick succession. You can reach Ruhr-Universität, which has its own station, easily by catching the underground (U-Bahn) train U35 (CampusLinie). On workdays, the U35 (going to Bochum Hustadt) departs in five-minute intervals, and it takes less than 10 minutes to go from the main train station to the university station. Red line indicates walking route from university station to building IC. The room number is IC 03/604. Please note: buildings IA and IB do not exist currently; there is a construction site.

## Address for your satnav

Bochum - Universitätsstraße - 150

Alternatively, you can also enter the names of the freely accessible campus streets: I-Nordstraße, N-Südstraße, G-Südstraße, M-Nordstraße.

