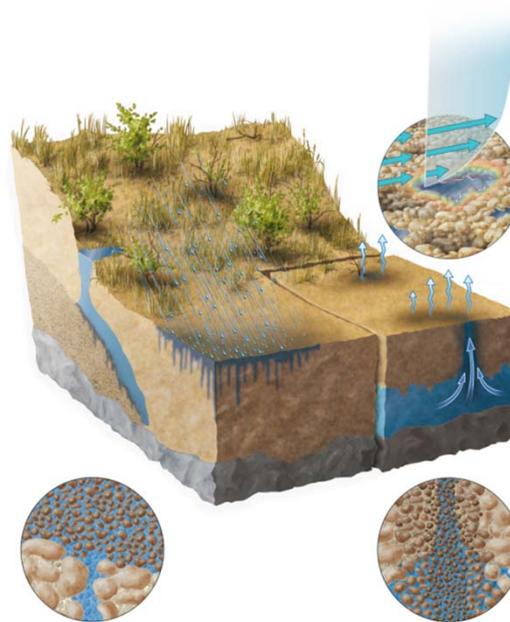


Keynote speakers

- **Marco Dentz** (CSIC, Spain)
- **Siegfried Raasch** (University of Hannover, Germany)
- **Majid Hassanizadeh** (University of Utrecht, The Netherlands)
- **Kate Smits** (Colorado School of Mines, USA)
- **Vahid Joekar-Niasar** (University of Manchester, United Kingdom)
- **Denis M. O'Carroll** (University of Western Ontario, Canada)
- **Patrick Jenny** (ETH Zürich, Switzerland)
- **Dorthe Wildenschild** (Oregon State University, USA)

Organizing committee

- *Wolfgang Durner* (TU Braunschweig)
- *Rainer Helmig* (Universität Stuttgart)
- *Manfred Krafczyk* (TU Braunschweig)
- *Peter Lehmann and Dani Or* (ETH Zurich)
- *Insa Neuweiler* (LU Hannover)
- *Jan Vanderborght* (FZ Jülich)
- *Hans-Jörg Vogel* (UFZ Halle)



Information and registration

June 2014: First announcement

02 Nov 2014: Deadline for abstract submission

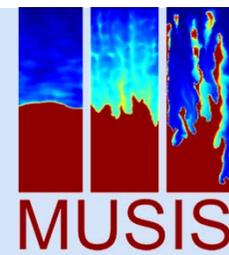
30 Nov 2014: Decision on abstract acceptance

08 Feb 2015: Deadline for registration/payment

For additional information and abstract submission
<http://www.musis-workshop2015.uni-hannover.de>

Location/Accommodation:

Seminaris Hotel Potsdam
An der Pirschheide 40
D-14471 Potsdam



First Announcement
International Workshop

Interfaces and their role in
displacement and
transport in unsaturated
porous media

10-12 March 2015
Hotel Seminaris, Potsdam



Motivation

The workshop aims to provide a platform for scientific exchange among researchers working on displacement processes in porous media such as evaporation, infiltration and redistribution using novel experimental, numerical and theoretical approaches. We aim at bringing together a wide range of disciplines to address questions such as:

- How can we model and predict mass and energy exchange between the upper soil and the atmospheric boundary layer? What are the relevant scales of structures and flow regimes that determine evaporation rates?
- How can we quantify the morphology of fluid distribution during displacement and what are important properties that determine the displacement process on a larger scale? Can we derive upscaling schemes that allow predicting displacement on larger scales?
- Boundary conditions close to the soil surface are often dynamic with changing directions and involve phase changes. How are these dynamics manifested in component transport within the fluids?
- Can we quantify ranges for the limitations for our standard modeling concepts, such as the Richards equations, based on material and fluid properties, structural information and boundary conditions?

Topics

- **The porous medium-free flow interface: from interactions at the pore scale to transfer processes between the landsurface and the atmosphere**
- **Pore scale dynamics of fluid interfaces and their manifestation at the continuum scale**
- **Component transport in dynamic flow patterns**
- **Formation, dynamics, and stability of interfaces at reservoir scale**
- **Applicability, thresholds and limits of describing water flow in porous media with the Richards equation**

