

# Workshop on evaporation across the free-flow porous medium interface and salt precipitation

April, 1<sup>st</sup> – 2<sup>nd</sup> 2019 at University of Stuttgart, Germany

Flow and transport processes in domains composed of a porous medium and an adjacent free-flow region appear in a wide range of industrial, bio-medical and environmental applications. In natural systems evaporation from bare soil is one of the key examples for such an application. Evaporation can lead to salt precipitation at the soil surface, which has important implications for agricultural soil management or construction materials.

This workshop aims to discuss the complex interface-dependent exchange processes of mass, momentum and energy at the porous-medium free- flow interface which determine the behaviour of these systems.

The goal is to establish the relevant steps which are necessary to gain insight into the complex interface behaviour at different scales. The workshop aims to bring together experimentalists as well as modellers working in that areas to discuss their work and share their knowledge. Scales of interest range from the molecular scale over the pore-scale up to the REV-scale.

The workshop will focus on evaporation processes at the first day (April 1<sup>st</sup>) and on salt precipitation at the second day (April 2<sup>nd</sup>). It is also possible to attend only one of the days depending on the research interest.

The workshop is organised by the International Research Training Group DROPIT (<https://www.project.uni-stuttgart.de/dropit/>) and Collaborative Research Centre 1313 (SFB 1313) “Interface-Driven Multi-Field Processes in Porous Media” located at the University of Stuttgart (<https://www.sfb1313.uni-stuttgart.de/>).

