SSS6.6 - PREFERENTIAL FLOW AND MASS TRANSFERS IN HETEROGENEOUS SOILS, POROUS FRACTURED MEDIA AND COMPLEX GEOLOGICAL STRUCTURES

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We are delighted to welcome you to the session on preferential flow and mass transfer in heterogeneous porous media. This chat will last approximately 1:45 and we will address several studies on the following issues …

The attendees can write any question at any time, except when muted. We, as conveners, will invite some attendees to present in few lines their studies. In the meantime, the other attendees will be muted. As soon as the presentation is finished, the attendees will be unmuted.

We wish you a pleasant session!
Issues

- Field observations of preferential and mass transfer: multifactorial processes across scales
- Porous media with typical structure (fractured porous media)
- Impact of biota (earthworms, plant root system) on the soil structure and induced preferential flow
- Physico-chemical and geochemical processes (drying/wetting cycles, hydrophobicity, clogging) and induced preferential flow
- From preferential flow to solute transfer (effect on sorption) and biological cycles (effects on nutrients)
- All modeling approaches with an introduction on the main modelling approaches.