

7th Reactive Transport PhD Workshop

February 23 – 24, 2017

Day 1

Thursday, 23th February 2017

Helmholtz Centre for Environmental Research - UFZ, Permoserstr. 15, 04318 Leipzig, KUBUS, Saal 2

Welcome address

13:00 – 13:10	Welcome and Introduction <i>Olaf Kolditz (UFZ)</i>
13:10 – 13:30	Research at UFZ <i>Thomas Kalbacher/Haibing Shao (UFZ)</i>

Session 1

13:30 – 13:55	Dynamic simulation of Lagrangian reactive transport in pore scale porous media <i>Christian Hinz (Uni. Mainz)</i>
13:55 – 14:20	Our strategic approach: Reactive transport modeling based on parameters obtained from batch and GeoPET column experiments: example from leaching of a fractured drill core <i>L. Karimzadeh (HZDR)</i>
14:20 – 14:45	Nitrate reduction processes in the heterogeneous aquifer systems by numerical simulation <i>Eunseon Jang (UFZ)</i>
14:45 – 15:10	Optimization and numerical modelling of nitrogen removal in aerated wetlands <i>Johannes Boog (UFZ)</i>

15:10 – 15:35 **Coffee break**

Session 2

15:35 – 16:00	Predicting heat storage densities and adsorption kinetics of zeolite granulates under various humidity conditions <i>Christoph Lehmann (UFZ)</i>
16:00 – 16:25	Modelling retardation and sorption processes of Ni on quartz, orthoclase and muscovite <i>Julian Fricke (GRS)</i>

16:30 **End of day one**

18:00 **Get together (“Wenzel Prager Bierstuben” in Leipzig)**

Day 2

Friday, 24th February 2017

Helmholtz Centre for Environmental Research - UFZ, Permoserstr. 15, 04318 Leipzig, KUBUS, Saal 2

* VISLAB in building 7.1 (ground floor) at the UFZ

Session 3

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| 09:30 – 09:55 | Modelling of radionuclides migration in the low pH cement/clay interface
<i>N. Ait Mouheb(KIT)</i> |
| 09:55 – 10:20 | Modeling cement/clay interaction with the Nernst-Planck approach
<i>Leonardo Hax Damiani (PSI)</i> |
| 10:20 – 10:45 | Water-granite interaction with pressure solution in a flow-through fracture under confining pressure
<i>Renchao Lu (UFZ)</i> |

Discussion

10:45 – 11:15

Visit Program and closure*

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|---------------|---|
| 11:30 – 12:30 | Visualization Center TESSIN VISLab
<i>Lars Bilke (UFZ)</i> |
| 12:30 – 13:00 | Workshop wrap up and Closure
<i>Olaf Kolditz/Thomas Kalbacher/Haibing Shao (UFZ)</i> |

13:00 **End of workshop day two**

How to reach us



Leipziger KUBUS

Helmholtz Centre for
Environmental Research - UFZ
Permoserstrasse 15
04318 Leipzig
Germany

By car

On A14 motorway take exit "Leipzig-Ost" and head for Leipzig Stadtzentrum/City Centre. Follow Permoserstrasse up to the underground parking sign for conference Leipziger KUBUS on right hand side. Leipzig has an "environmental protection zone". Vehicles must have a green badge in order to be permitted entering the city zone.

By tram

In front of Central Station Leipzig take tram No. 3 (heading to "Sommerfeld" or "Taucha"); after about 15 minutes alight at stop "Torgauer/ Permoserstraße"; walk Permoserstraße 300 metres eastward to find the entrance of KUBUS.

By taxi

Taxi from Central Station Leipzig approx. € 13, from Airport approx. € 42



