## Welcome address

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 13:00 – 13:10 | Welcome and Introduction  
Olaf Kolditz (UFZ) |
| 13:10 – 13:30 | Research at UFZ  
Thomas Kalbacher/Haibing Shao (UFZ) |

## Session 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 13:30 – 13:55 | Dynamic simulation of Lagrangian reactive transport in pore scale porous media  
Christian Hinz (Uni. Mainz) |
| 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  
L. Karimzadeh (HZDR) |
| 14:20 – 14:45 | Nitrate reduction processes in the heterogeneous aquifer systems by numerical simulation  
Eunseon Jang (UFZ) |
| 14:45 – 15:10 | Optimization and numerical modelling of nitrogen removal in aerated wetlands  
Johannes Boog (UFZ) |
| 15:10 – 15:35 | Coffee break |

## Session 2

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

<table>
<thead>
<tr>
<th>Session 3</th>
<th>Time</th>
<th>Description</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modelling of radionuclides migration in the low pH cement/clay interface</td>
<td>09:30 – 09:55</td>
<td></td>
<td>N. Ait Mouheb (KIT)</td>
</tr>
<tr>
<td>Modeling cement/clay interaction with the Nernst-Planck approach</td>
<td>09:55 – 10:20</td>
<td></td>
<td>Leonardo Hax Damiani (PSI)</td>
</tr>
<tr>
<td>Water-granite interaction with pressure solution in a flow-through fracture under confining pressure</td>
<td>10:20 – 10:45</td>
<td></td>
<td>Renchao Lu (UFZ)</td>
</tr>
</tbody>
</table>

Discussion
10:45 – 11:15

Visit Program and closure*
11:30 – 12:30 Visualization Center TESSIN VISLab
Lars Bilke (UFZ)
12:30 – 13:00 Workshop wrap up and Closure
Olaf Kolditz/Thomas Kalbacher/Haibing Shao (UFZ)

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