Core course: Urban interface processes – fluxes, transport, interactions

- Mandatory course, 3 ECTS, 1st sem., short course

- Lecturers IGB: Nützmann, Tetzlaff & Lewandowski
  TUB: Hinkelmann, Putschew, Adrian, Stephan & Barjenbruch

**Interactions & feedback mechanisms**
between urban water compartments

**Common challenges:**
- Non-linearity
- Complexity
- Anthropogenic vs. natural influences

**Fluxes**
Water, heat, gas & matter across interfaces

**Transport**
Biogeochemical gradients & reactions at interfaces
Core course: Urban interface processes – fluxes, transport, interactions

- Urban water systems: Berlin example
- Ecohydrological processes in urban environments
- Groundwater – surface water interfaces
- Fluid mechanics, environmental hydraulics

- Technical and natural transformation processes

- Excursion

- Interfaces in water and wastewater treatment
- Environmental impact of water on building materials