

**13. Juni 2013, 16 ct – 18 Uhr  
Hörsaal Fahnenbergplatz (Rektoratsgebäude)**

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## **Deconstructing the hydrologic response: pattern and dynamics of water age**

The age of water is often investigated with relatively simplistic models, preventing the distinction between water ages in the stream and age distributions of water stored in the catchment. Analysing water ages within a conceptual modeling framework allowed clearer distinction between these fundamentally different types of water age distributions – transit time distribution and residence time distribution. In addition, using a flux tracking technique catchment wetness dependent patterns and temporal dynamics were explored to allow for a deeper understanding of the link between hydrological response and hydrochemical response/transport processes at the catchment scale.