

# Geowissenschaftliches Kolloquium

## *Trend analysis in hydrology and hydrogeology: Significant, but irrelevant*

Donnerstag, 29. Juni 2017 - 16.15 Uhr

### Gunnar Lischeid

(ZALF - Müncheberg & Universität Potsdam)

Groundwater head and lake water level exhibited inconsistent trends during the last three decades in North East Germany. It could be shown that this phenomenon could not be ascribed to local effects. Instead, the observed inconsistent trends were primarily due to low-pass filtering of the groundwater recharge signal. Thus, minor long-term oscillations in the input signal build up and become visible only after passage through the vadose zone, resulting in apparent long-term linear trends.

**Prof. Dr. Gunnar Lischeid** is head of the Institute of Landscape Hydrology at the Leibniz Centre for Agricultural Landscape Research (ZALF) at Müncheberg and professor for landscape hydrology at the University of Potsdam. His research focuses on the interaction between hydrological, hydrogeological and biogeochemical processes in complex landscapes. To that end, advanced data mining and time series analysis approaches are used.



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