

The Department of Earth Sciences K. Douglas Nelson Colloquium Series and  
SU ADVANCE present:

# Professor Doerthe Tetzlaff

Department of Geography and Environment  
University of Aberdeen

## Always connected? Hydrological connectivity and water storage dynamics in northern watersheds



**Thursday, September 12th, 4 pm**  
**Heroy Geology Lab, Room 113**

Professor Tetzlaff's research deals with spatial and temporal variability of river catchments, their hydrologic function at different scales, landscape controls on hydrology, and how catchments and in-stream hydrology influence the structure and function of riverine habitats. She uses Geographic Information Systems (GIS), landscape analysis, and environmental tracer data in combination with numerical modeling to understand the dynamics and function of catchments. In addition, she explores hydraulic influences on feeding habitats and migratory behaviors of salmon. Professor Tetzlaff was awarded a Visiting Fellowship in Freshwater Science from the prestigious Leibniz Institute of Freshwater Ecology and Inland Fisheries in Berlin, was elected the European Co-Chair of the Gordon Research Conference on Catchment Science, and chairs the International Initiative on Prediction in Ungauged Basins for the International Association of Hydrological Sciences. She is a member of the Natural Environment Research Council and a founding member and Director of the Northern Rivers Institute. Professor Tetzlaff completed a BS in Geography at the University of Potsdam, Germany, and an MS in Physical Geography and Landscape Ecology at the University of Hanover, Germany. She received her PhD in Hydrology from the University of Freiburg, Germany.

