

## Palaeoclimate research in Central Asia - a review

*20 years paleoclimate research in Mongolia and China from  
RWTH Aachen University*



07.06.2019, Aachen

**Prof. Dr. F. Lehmkuhl**

Chair of Physical Geography and Geoecology

The high mountain environments in Central and High Asia, especially the Tibetan Plateau, provide water resources for more than 3 billion people. They are water towers and reservoirs with high precipitation as well as ice and snow. Therefore, the interest in understanding the water cycles and related earth surfaces processes of this vast region, affected by the climate change, increased over the past decades. The paleoenvironmental development, driven by changes in temperature and moisture, is recorded in the extent of glaciers and lakes. Geomorphological and biological environments such as loess, paleosols, lacustrine and fluvial deposits as well as trees and peat bogs are archives for the climatic development of the region. This small conference aims to review important geo- and bioscientific research issues and stimulate ideas for future research and cooperation.

# Program

- 09:45 F. Lehmkuhl Welcome
- 10:00 L. Owen Quaternary glaciations of the Himalaya and Tibet
- 10:30 D. Loibl Topoclimatic forcing of glacier change in High Mountain Asia
- 11:00 – 11:30 *Coffee break*
- 11:30 B. Diekmann Lake Dynamics on the northern Tibetan Plateau during the Holocene
- 12:00 A. Bräuning Do tree rings tell us new stories about the climate history of the Tibetan Plateau?
- 12:30 – 13:30 *Lunch break*
- 13:30 V. Nottebaum From mountains to basins – and back? Fluvial, lacustrine and aeolian sediments in southern Mongolia
- 14:00 M. Klinge Geomorphological and paleoclimatical influence on lake level changes in Mongolia
- 14:30 F. Schlütz Driven by the Westerlies - From the North German homeland to high Asia
- 15:00 – 15:30 *Coffee break*
- 15:30 E. Eckmeier Degradation of steppe soils as a result of changing land-use and climate
- 16:00 M. Frechen Luminescence Dating in Frank`s Backyard – Examples from Inner and Outer Mongolia and the Tibetan Plateau
- 16:30 S. Markovic Eurasian loess: the last 8 glacial-interglacial cycles
- 17:00 F. Lehmkuhl Closing remarks

Deadline for registration: **01.04.2019!**

For the registration, please use the attached pdf file and send it to:

[prca@geo.rwth-aachen.de](mailto:prca@geo.rwth-aachen.de)

The conference fee will be **15,- €** and includes coffee, drinks in the coffee break and a simple lunch.

The conference fee should be transferred to:

RWTH Aachen University  
IBAN: DE29 3905 0000 0000 0253 79  
BIC: AACSD33  
Payment Reference: Name, Given Name PRCA -  
551610

**Location:**

RWTH Aachen University  
Building: Super C – 5th floor, Generali Hall  
Templergraben 57  
52062 Aachen

Hope to see you in Aachen!

*Frank Lehmkuhl*

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