

Institut für Geophysik
Geophysikalisches Kolloquium
Sommersemester 2020

Montag, 22. Juni 2020

Prof. Dr. Michael Becken

Institute for Geophysics, University of Münster, Germany

**Exploration geophysics: Development of semi-airborne EM
methods**

Securing access to raw materials is a major political and societal objective. Because shallow resources are largely known and partly exhausted, new exploration programs target at ore mineral deposits under cover and at depths in the order of 1000 m. Commercially used airborne electromagnetic (EM) surveying cannot achieve penetration depths of more than a few hundred meters. In this presentation, I focus on the semi-airborne EM method, which has been implemented over the last years in the frame of the DESMEX project. Semi-airborne EM combines the advantages of powerful transmitters deployed on the ground with efficient helicopter-borne mapping of the magnetic field response in the air and can potentially address the demands of increased exploration depth. I discuss the new system, data processing strategies and the application in case studies.

Das Kolloquium findet um **16 Uhr c.t.** als Zoom-Videokonferenz statt. Der Link dazu wird auf der Homepage und per eMail rechtzeitig mitgeteilt.
Alle an dem Thema Interessierten sind hierzu herzlich eingeladen.

Die Dozenten des Instituts für Geophysik