

**Sommersemester 2009**

## BayCEER Kolloquium

**Vortragsreihe Ökologie und Umweltforschung****Montag 06.07.2009, 16:15 Uhr, H6****Anschließend Postkolloquium mit Bier und Brezeln im Foyer H6**

### **Dr. Isabelle Cousin**

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## Electrical resistivity survey in soil science

Geophysical methods have been recognised as very attractive tools to characterise soil structure and soil properties. Electrical resistivity measurements are one of the mostly used geophysical methods in soil science. In this talk, first the basics of electrical resistivity will be presented, as well as the experimental methods and the inversion algorithms used to interpret the data. Then, the ability of electrical resistivity to characterise soil types and soil structure at a local scale, by both 2D and 3D prospecting will be discussed.

In a third part, we will present some results of characterisation of soil hydrodynamic functioning by spatial electrical resistivity prospecting at profile scale and at small watershed scale. Finally, we will conclude by a brief presentation of the recent advances in the field of hydrogeophysics.

Die Vortragsreihe ist eine interdisziplinäre Plattform zur Information und Diskussion für Studierende, Forschende und Lehrende

Gäste sind herzlich willkommen