



EINLADUNG  
zum  
VERA - SEMINAR  
von

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**Pushing the limits of high-precision radiocarbon  
measurements**

The Mini CARbon DAting Systems (MICADAS) developed at ETH Zurich (200 kV) goes beyond what is generally accepted as high-precision radiocarbon measurements and represents the state of the art. The perspectives of MICADAS are demonstrated on an example of highest-precision measurements of wood samples for the radiocarbon calibration curve.

Inflation in radiocarbon dating is expected, when single compounds isolated by analytical techniques like HPLC or GC can be measured. Unfortunately the isolated material is limited to a few micro-gram. MICADAS is equipped with a gas ion source for the direct measurement of CO<sub>2</sub> and allows for the first time precise routine radiocarbon dating of micro-gram samples. The impact of the new-generation compact radiocarbon dating systems with its gas ion source will be discussed in detail..

**Donnerstag, 15. April 2010, 16:30 Uhr**

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",  
1. Stock, Victor-Franz-Hess-Hörsaal**