



E I N L A D U N G

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V E R A - S E M I N A R

von

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**Laser-ablation ICPMS – methodological advances and
applications from ice cores to medieval Pb exposure**

A new custom-designed laser-ablation inductively-coupled-plasma mass spectrometry system (LA-ICPMS) was installed at RHUL two years ago, featuring a special two-volume laser-ablation cell coupled to a 193 nm (ArF) excimer laser. System design and performance will be discussed in so far as necessary to highlight performance advantages for a range of applications: A cryo cell sample holder facilitates direct chemical analysis of Greenland ice cores at unprecedented spatial/temporal resolution. Capabilities for lateral profiling will be explored via analysis of medieval Pb exposure from tooth enamel at ~weekly resolution. Ultimate spatial resolution will be explored via depth profiling of daily fish otolith growth signatures. At.

Donnerstag, 10. Dezember 2009, 16:30 Uhr

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