

**TO Brownbag Seminar, Tuesday, Aug. 9, 2011**  
**Professor Andreas Rietbrock, University of Liverpool**

**Imaging the Chilean subduction zone using seismic arrays**

**Abstract:**

Over the last decade numerous seismological arrays have been deployed along the Chilean subduction zone. We have used travel time and attenuation local seismic tomography to image the detailed seismic structure of the South American plate reaching from the seismogenic zone to the currently active volcanic front in the Andes. The analysis of guided waves together with accurate relative locations gives insights into the seismic structure of the subducting Nazca plate. We will also show first locations of the 2010 Maule aftershock sequence as recorded by the IMAD network.