

## HITEC Methods Day

**Title:** Inverse Modelling  
**Date:** 5 June, 2013  
**Time:** 9:00 –17:00 o'clock  
 afterwards *get together* with snacks and drinks  
**Location:** [University of Cologne](http://www.uni-koeln.de/bin2/where.pl?parent.geb106) ► Seminar Build., Build. 106, R 004,  
 Universitätsstraße 35, 50931 Köln  
<http://www.uni-koeln.de/bin2/where.pl?parent.geb106>

9:00 - 9:05	Welcome
9:05 – 10:00	<b>Introduction to inverse modelling and data assimilation</b> <i>PD Dr. Hendrik Elbern, Forschungszentrum, Jülich, IEK-8, and Rhenish Institute for Environmental Research at the University of Cologne</i>
10:00 – 11:00	<b>Ground based remote sensing of cloud water, temperature and humidity profiles</b> <i>Prof. Dr. Susanne Crewell, PD Dr. Ulrich Löhnert, Institute for Geophysics and Metereology, University of Cologne</i>
11:00 – 11:30	Coffee break
11:30 – 12:30	<b>Retrieval of atmospheric trace gases by inverse modelling of radiative transport</b> <i>Dr. Jörn Ungermann, Forschungszentrum Jülich, IEK-7</i>
12:30 – 13:45	Lunch break – at own costs
13:45 – 14:30	<b>Inverse problems for acoustics and electromagnetics</b> <i>Prof. Dr. Roland Potthast, Deutscher Wetterdienst/University of Reading, UK</i>
14:30 – 15:15	<b>Data assimilation at the German Weather Service</b> <i>Prof. Dr. Roland Potthast, Deutscher Wetterdienst/University of Reading, UK</i>
15:15 – 16:15	<b>Atmospheric chemistry data assimilation</b> <i>PD Dr. Hendrik Elbern, Forschungszentrum Jülich, IEK-8 and Rhenish Institute for Environmental Research at the University of Cologne</i>
16:15	Get-Together with snacks

### HITEC Days

HITEC Days are an inherent part of the graduate school Helmholtz Interdisciplinary Doctoral Training in Energy and Climate Research (HITEC). They devote a whole day to a method or a scientific topic with lectures and discussions. The methodological days serve to encourage scientific interdisciplinarity and will enable the PhD students to extend their range of methods with respect to their own scientific work. HITEC Days always end with a 'Get together', some snacks and drinks. HITEC Days are open for HITEC Ph.D. students and other interested young scientists.