

## HITEC Theme/Methods Day

**Title:** Materials for High Temperature Applications  
**Date:** 05 February, 2015  
**Time:** 9:00 –17:00  
 afterwards *get together* with snacks and drinks  
**Location:** Forschungszentrum Jülich, IEK-2, Bld. 5.1, R. 1

09:00 – 09:15	Welcome and Introduction
09:15 – 09:45	<b>Application of high temperature materials</b> <i>Prof. Lorenz Singheiser*</i>
09:45 – 10:15	<b>Constitution and microstructure of structural materials</b> <i>Dr. Daniel Grüner</i>
10:15 – 11:00	<b>Manufacturing and properties of nickel base alloys</b> <i>Prof. Lorenz Singheiser</i>
11:00 – 11:15	Coffee-break
11:15 – 11:45	<b>Ferritic steels for high temperature applications</b> <i>Dr. Bernd Kuhn</i>
11:45 – 12:30	<b>High temperature oxidation of structural materials</b> <i>Prof. Willem J. Quadackers</i>
12:30 – 13:30	Lunch-break – at own costs for Docs
13:30 – 14:15	<b>Thermo-mechanical properties of ceramic materials</b> <i>Dr. Jürgen Malzbender</i>
14:15 – 14:45	<b>High temperature corrosion of ceramic materials</b> <i>PD Dr. Michael Müller</i>
14:45 – 15:30	<b>Materials at ultra-high temperatures</b> <i>Dr. Jochen Linke)</i>
15:30 – 15:45	Coffee-break
15:45 – 16:15	<b>Analysis of high temperature materials using SEM and TEM</b> <i>Dr. Egbert Wessel</i>
16:15 – 17:00	<b>Thermodynamics – experimental and modelling</b> <i>Dietmar Kobertz, Dr. Elena Yazhenskikh</i>
17:00 -	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.

\*all speakers are from Forschungszentrum Jülich, IEK-2