

HITEC Theme Day

Title: Materials for High Temperature Applications
Date: 22.-23. March 2016
Time: 9:00 –12:30
Location: [Forschungszentrum](#) ► IEK-2, Bld. 5.3, Stelzenhösraal

Day 1	
09:00 – 09:15	Welcome and Introduction
09:15 – 09:45	Application of high temperature materials <i>(Prof. L. Singheiser, Forschungszentrum Jülich, IEK-2)</i>
09:45 – 10:15	Constitution and microstructure of structural materials <i>(Dr. D. Grüner, Forschungszentrum Jülich, IEK-2)</i>
10:15 – 10:45	Analysis of high temperature materials using SEM and TEM <i>(Dr. E. Wessel, Forschungszentrum Jülich, IEK-2)</i>
10:45 – 11:00	Coffee-break
11:00 – 12:00	Thermodynamics – experimental and modelling <i>(S. Dang, Dr. D. Sergeev, Dr. E. Yazhenskikh, Forschungszentrum Jülich, IEK-2)</i>
12:00 – 12:30	Manufacturing and properties of nickel base alloys <i>(Prof. L. Singheiser, Forschungszentrum Jülich, IEK-2)</i>
Day 2	
09:00 – 09:30	Metallic materials for high temperature applications <i>(Dr. B. Kuhn, Forschungszentrum Jülich, IEK-2)</i>
09:30 – 10:15	High temperature oxidation of structural materials <i>(Dr. W.J. Quadackers, Forschungszentrum Jülich, IEK-2)</i>
10:15 – 11:00	Thermo-mechanical properties of ceramic materials <i>(Dr. J. Malzbender, Forschungszentrum Jülich, IEK-2)</i>
11:00 – 11:15	Coffee-break
11:15 – 11:45	High temperature corrosion of ceramic materials <i>(PD M. Müller, Forschungszentrum Jülich, IEK-2)</i>
11:45 – 12:30	Materials at ultra-high temperatures <i>(Dr. J. Linke, Forschungszentrum Jülich, IEK-2)</i>

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.