

HiTEC Lab

Title: Experimental Methods for Characterisation of Materials for High Temperature Applications

Date: 6 February, 2015

Time: 9:00 – 17:00

Location: Forschungszentrum Jülich, IEK-2, Bld. 5.1, R. 1

Participants will work in maximum 4 groups of ≤ 5 persons. The groups will rotate to cover all the methods 1-4 listed below.

- 09:00 – 09:15 Welcome and introduction
09:15 – 10:45 **Methods session**
10:45 – 11:00 *Coffee break, change*
11:00 – 12:30 **Methods session**
12:30 – 13:45 *Lunch Break, change*
13:45 – 15:15 **Methods session**
15:15 – 15:30 *Coffee break, change*
15:30 – 17:00 **Methods session**
17:00 - Questions & answers (with snacks)

Methods:

- 1) Tensile and fatigue test and post examination (*B. Kuhn, J. Malzbender, V. Gutzeit, J. Bartsch, E. Wessel D. Grüner*)
- 2) High temperature oxidation test and post examination (*J. Quadackers, D. Naumenko, V. Gutzeit, J. Bartsch, E. Wessel D. Grüner*)
- 3) KEMS and DTA (*D. Kobertz, D. Sergeev, I. Dreger*)
- 4) MBMS (*M. Bläsing, M. Müller*)

The HiTEC Labs are hands-on periods of practical training lasting 2 to 3 days, in which small groups of students from various institutes concentrate on one method that is applied in various fields. The aim of the HiTEC Labs is to enable the PhD students to appreciate that a method originating from an unrelated field may also be applied in their own work. If students should discover that they require more intensive instruction in applying the method than can be imparted during the HiTEC Lab, then they can make arrangements with PhD students at the institute in question to work at the institute for a limited period.