



Die Graduiertenschule MUSIC lädt ein zum Vortrag im Seminar

"Gekoppelte Probleme am Interface"

Donnerstag, 5. Mai 2011, 14:30 Uhr

Institut für Werkstoffkunde (IW)
An der Universität 2, 30823 Garbsen

Seminarraum 1
(ist ausgeschildert)

"Scale-Bridging Analysis Methods"

Dr.-Ing. Mirko Schaper

*Leibniz Universität Hannover – Oberingenieur am
Institut für Werkstoffkunde*

This lecture is about the classic methods and the newest developments in the field of materials testing and materials analysis. It is starting with the methods for macroscopic geometries, like for example the tensile test – with specimen in the range of at least several millimeters. Then different other methods are presented which can characterize the structures of materials down to the nano scale.

Besides the light microscopy and the confocal light microscopy the different methods of the electron microscopy are in the main focus of the lecture. For these microscopes the imaging techniques are described as well as the x-ray diffraction. Both methods are explained by practical examples.

The lecture addresses visitors without a deep understanding of materials science.

After the seminar you are invited to participate in guided tour through the PZH-facilities (about 30 min.).