

HITEC Methods Day

Title: Materials and Compounds: Surface Analysis

Date: 4 December, 2014

Time: 08:45 – 15:45, afterwards *get together* with snacks and drinks

Location: RWTH Aachen University, Build. Super C, Generali-Saal, Templergraben 57
Bus transfer back and forth will be provided

08:45 – 09:00	Welcome and Introduction
9:00 – 9:45	Electron Microscopy <i>Dr. Egbert Wessel, Forschungszentrum Jülich, IEK-2</i>
9:45 – 10:30	Surface and Thin Film Characterization using Mass- and Electron- Spectrometric Techniques <i>Dr. Uwe Breuer, Forschungszentrum Jülich, ZEA-3</i>
10:30 – 10:45	Coffee break
10:45 – 11:15	Optical Spectroscopy – Fundamentals and Overview <i>Dr. Nicole Lühmann, Forschungszentrum Jülich, ZEA-3</i>
11:15 – 11:45	Optical Spectroscopy - Applications <i>Dr. Karsten Bittkau, Forschungszentrum Jülich, IEK-5</i>
11:45 – 13:00	Lunch break (at own costs): Bus transfer to Mensa Ahornstrasse
13:00 – 14:15	Visit of the Central Facility for Electron Microscopy – RWTH Aachen University (GFE) <i>Prof. Dr. Joachim Mayer, GFE and Forschungszentrum Jülich, Ernst Ruska-Centrum</i>
14:15 – 14:30	Bus Transfer back to Super C
14:30 – 15:15	Conductive Atomic Force Microscopy (LC-AFM) <i>Prof. Dr. Kristof Szot and a member of his team, Forschungszentrum Jülich, PGI-7</i>
15:15 – 15:45	Surface Technologies in Tribology <i>Dipl.-Ing. Gero Burghardt, RWTH Aachen University, Institute for Machine Elements and Machine Design</i>
15:45 -	Discussion and Closing Remarks
Afterwards	Get-Together with snacks and drinks

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.