

HITEC Methods Day

Title: Coating Technology

Date: 26 May, 2015

Time: 9:00 – 17:00 o'clock
afterwards *get together* with snacks and drinks

Location: **Forschungszentrum** ► **Buildg. 4.8, Lecture Hall, R 365**

Coating technology plays a dominant role in the manufacture of energy systems. Nowadays, different technologies are in use to produce highly efficient energy conversion systems. In the seminar, the focus will be laid on thin film methods like PVD and CVD, wet chemical deposition processes as tape casting and screen printing as well as thermal spray methods, mainly atmospheric plasma spraying but also recent developments. In addition to the presentation from scientists also more industrial oriented talks from colleagues from industry are given.

You will learn about:

1. Physical and chemical vapour deposition (PVD and CVD)
2. Wet chemical methods
3. Thermal spray technologies

Contents:

- Wet chemical coatings for solid oxide fuel cells
- Wet chemical coatings for membrane manufacture
- Thin films for different applications
- Protective layers for gas turbines

Who should attend:

HITEC Ph.D.-fellows;
Postgraduate-, Ph.D.- and postdoctoral fellows from the fields of energy and climate research

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.