



Vortragsankündigung

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Es spricht: **Prof. Dr.-Ing. W. Peukert**, Institut für Feststoff- und Grenzflächenverfahrenstechnik, Universität Erlangen-Nürnberg

Zeit: **Mittwoch, 28. Januar 2009 17:15 Uhr**

Ort: **TU Berlin**
Institut für Chemie, Altes Chemiegebäude
Straße des 17. Juni 115
10623 Berlin
Raum C 243

Thema: **Engineering of Advanced Materials**
- From Particles to Properties

Abstract: Product Design is structure design. Nanoparticles are used as building blocks for the hierarchical organisation of functional materials and devices. Both structure-property and process-structure functions must be understood, tailored and applied during production. Within nanotechnology, an in-depth understanding for handling and production of nanoparticles and nanomaterials is still widely missing. Unifying concepts for product design comprise formation of building blocks, characterization of particulate systems, interface engineering, structure design strategies and multiscale modelling and simulation. Since 2007, the excellence cluster “Engineering of Advanced Materials – Hierarchical the Design for Functional Structures (EAM)” is funded by the German Science Foundation within it’s excellence initiative. EAM comprises 7 disciplines from basic science to production engineering in electronics, photonics, catalysis and lightweight materials. These developments foster the breakdown of barriers between disciplines. Some of the related implications will be discussed. As specific examples, process chains for the fabrication of devices for electronic and photonic applications will be discussed.

Organisator: Prof. Dr. Schomäcker (TUB)

Gäste sind herzlich willkommen!

Prof. Dr. Matthias Drieß
Sprecher des Exzellenz-Clusters UniCat