# UniCat Colloquium

**Lecturer:** **Prof. Zdzislaw Jaworski** - West Pomeranian University of Technology, Szczecin, Poland

**Title:** **Current status of multiscale modelling of product processing**

**Abstract:** The beginning of new century sees an important modification in the design methodology of chemical process engineering, which employs the product engineering approach that starts from a product of market-defined properties and explores methods and tools to effectively design a production plant. Three types of modelling methods used in the chemical engineering design can be distinguished: process system engineering (PSE) for the plant-scale, computational fluid dynamics (CFD) for equipment units and computational chemistry (CCH) at the molecular scale. The methods were independently developed in the past and significant progress has recently been done in integrating PSE with CFD and CFD with CCH. The current state and perspectives for full integration of the three methods will be described in the presentation.

**Date:** **Wednesday, 03 February 2010**

**Time:** **5:15 pm - around 6:45 pm**

**Location:** **TU Berlin
Institute of Chemistry, Building C
Straße des 17. Juni 115, 10623 Berlin
room C 243**

**Organiser:** **Prof. Dr. Günter Wozny (TUB)**

Coffee and tea will be served thirty minutes prior to the lecture start.
Guests are cordially invited to attend!

Prof. Dr. Matthias Driess, Chair of the Cluster of Excellence UniCat