



Bayreuth Center for Colloids and Interfaces

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The Bayreuth center for colloid and interface science is a central institution of the university of Bayreuth. Its main purpose is the intensification of the university's collaboration with regional, national and international companies in handling colloidal systems. The central functions of the center are: (i) combining and strengthening colloid and interface research ranging from fundamental questions to industrial applications, (ii) providing aid in problem solving and optimization of industrial processes and (iii) making the knowledge and experimental infrastructure at Bayreuth University accessible for industrial companies.

Main Research and Core Capabilities:

- Formulation, stabilization and dispersion of Latices
- Characterization and modification of surfaces and coatings
- Topographically microstructured surfaces
- Self – healing surfaces
- Generation of nanoporous capules and membranes
- Synthesis of polymer systems for self-organizing nanostructures – analysis and characterization of high performance complex polymer structures
- Nanoparticulate – based systems via molecular design
- Nanoparticles for catalysis
- Hybrid materials and Nanocomposites
- Polymer compounds, nucleating agents and pigments – their synthesis, characterization, treatment and processing
- Micelles, microemulsions, colloids, gel former – and their application
- Microemulsion – based new decontamination systems
- Dynamic transport phenomena
- “chemical tailoring” of clay minerals with all-round application - solid state chemistry and structural analysis at the transition of short range to long range order
- Biomaterials

More information concerning the BZKG Management Board and the infrastructure of the central institution you will find at www.bzkg.de