Reliable partners at SKZ: The managing directors from left to right: Dr.-Ing. Peter Riedmeyer (Research), Robert Schmitt (Certification), Prof. Dr.-Ing. Martin Bastian (Chief Executive Officer), Dr.-Ing. Gerald Aengenheyster (Product Quality), Harald Huberth (Training)

As the largest plastics institute in Germany we offer practical solutions – tailored exactly to your requirements. For the past 50 years now we have seen ourselves as a partner to the plastics industry providing extensive system expertise:

By means of Testing and Quality Assurance we support your product policy, supplying you with valuable arguments for your key markets. With more than 10,000 participants each year, we are the market leader for Training and the Transfer of Knowledge in the field of plastics. Our Research division focuses on the development and improvement of production technologies in line with the market requirements. With the Certification of Management Systems we offer you the best prerequisite for efficiency and economic success.

Further SKZ services

(Advanced) Training  Process Optimization
Certification Quality Assurance
Expert Reports for Courts  Research and Development
Joining  Sustainability
Material and Product Tests  Third-Party Inspection
On-site Analysis

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What are dispersions?

Modern materials are composed of a number of different constituents, and in most of the cases, these constituents are not soluble in each other. Such mixtures are described as dispersions, which include for example suspensions (solid domains in a liquid), emulsions (liquid domains in a liquid), composites (solid domains in a solid) and aerosols (liquid domains in a gas).

Dispersions are found in a variety of applications, such as:
- Plastic parts
- Paints and coatings
- Nanocomposites
- Ceramics and porcelain
- Food and beverages
- Cosmetic products
- and many more ...

Not only the choice of the right components and formulation is essential for tailoring the final properties, but also the dispersion method plays an equally important role.

Partners and Location

The newly founded European Centre for Dispersion Technologies is currently under construction and will be an independent interdisciplinary research and technology transfer institution, in which R&D topics related to Dispersion Technologies as well as relevant services for the industry will be available.

The erection of this Centre is being funded by the SKZ German Plastics Centre and the Bavarian Ministry of Economic Affairs, Infrastructure, Transport and Technology, with strong support from the Bavarian Cluster Nanotechnology. Industrial companies also recognised the advantages of becoming partners of this new R&D Centre and are actively participating on its creation.

The new building will be located in the city of Selb, Germany.

We offer you

A competent interdisciplinary team and a variety of modern manufacturing and analytical methods will be available for R&D projects, training, analytical services and consulting.

Particle technology
- Chemical facilities for particle synthesis and functionalisation
- Plasma surface treatment
- Thermal treatment and Calcination
- Freeze-drying

Dispersion
- Planetary balls and cryogenic mill
- Dissolver and mixer
- Laboratory kneader
- Three roller mill
- Ultrasonic homogeniser
- High pressure homogeniser

Analytics
- Zeta potential measurement
- Tensiometer (surface energy)
- Dynamic light scattering
- Gravity induced sedimentation
- Laser diffraction system
- BET surface area analyser
- Rheological and thermal analysis (DSC, DMA, DEA)
- FT-IR and EDX spectroscopy
- Optical and scanning electron microscopy
- Mechanical characterisation

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