

President **Prof. Dr. Alexander Böker**

Division Director "Biopolymers" Prof. Dr. Johannes Ganster

Division Director "Functional Polymer Systems" **Dr. Armin Wedel**

Division Director "Synthesis and Polymer Technology" **Dr. Thorsten Pretsch**

Division Director "Life Science and Bioprocesses" **Dr. Ruben R. Rosencrantz**

Division Director "Pilot Plant Center PAZ" **Prof. Dr.-Ing. Michael Bartke**

Division Director "Polymeric Materials and Composites PYCO" **Prof. Dr.-Ing. Holger Seidlitz**

Division Director "Center for Applied Nanotechnology CAN" **Prof. Dr. Horst Weller**

Contact **Geiselbergstraße 69, 14469 Potsdam**

Website & Social media **www.iap.fraunhofer.de**



General Information

The Fraunhofer IAP offers a broad range of research in polymers. We work on biobased and synthetic polymers that meet the growing demands of our partners. The end products are becoming more durable and stable, more acid and heat resistant, easier to care for, healthier, more environmentally-friendly, more cost-effective etc. as well as easier and more energy efficient to manufacture.

The scientific knowledge and practical experience of our staff specialized in research areas such as Biopolymers, Functional Polymer Systems, Polymeric Materials and Composites, Synthesis and Polymer Technologies, applied Nanotechnology, Life Science and Bioprocesses guarantee fast implementation from concept to market. We cover a complete expertise of product development alongside all research phases, from synthesis and polymer processing up to scale-up and pilot testing under production conditions.

For many years our research division Life Science and Bioprocesses is focussing on research areas, such as Polymeric materials with biological functions, Multifunctional Colloids and Coatings, Biofunctionalized Materials and (Glyco)-Biotechnology, Healthcare, Biomaterials and Cosmeceuticals. Side by side with the research division for applied Nanotechnology we develop nanoparticle systems for diagnostic tools, biomarkers, additives for cosmetic products or specialty polymers for formulation aids.

To meet application's requirements we use proven mechanisms from nature to expand the functional spectrum of polymers. Take advantage of our expertise, which extends throughout the entire range of polymer applications!

Key facts

- **Founded in 1992**
- **254 employees**
- **7 Research Divisions**
- **7 Research Sites (Potsdam-Golm, Hamburg, Schkopau, Schwarzheide, Senftenberg, Wildau)**
- **Cooperation with 56 other research institutes, 93 universities and 240 companies**

CENTRAL RELATED INFRASTRUCTURE & RESOURCES

- **Functional Polymers for Medical Technology**
Modern synthesis laboratories for low-and high-molecular compounds
- **Biological Building Block and Bioprocess development**
Biochemical and molecular biological S1/S2
- **Functional Protein Systems**
State of the art synthesis laboratories for the synthesis of high and low molecular weight substances and particle systems
- **Processing Pilot Plant for Biopolymers**
Modern multifunctional equipped pilot plant for Biopolymers at BASF's site Schwarzheide
- **Pilot Plant Center PAZ**
Modern multifunctional pilot plant for low- and high-viscosity polymer syntheses (-1 to 100 bar and 5 to 350 °C) with 15 main reactors (50 to 870 L)
- **Further Pilot Plants for additive processes of Polymeric Materials and Composites**

