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Leibniz-Institut für Polymerforschung Dresden e. V.

Polymer Research

Fascination. Innovation.

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research partner in

EU projects

The Leibniz-Institut für Polymerforschung Dresden e.V. (Leibniz Institute of Polymer Research Dresden, IPF), as one of the largest polymer research facilities in Germany, participates in different European research projects and aspires to cooperate as partner and as coordinator with other research institutions, universities, industry, SMEs across Europe. IPF has experienced personnel, a well implemented management structure and intensely working transfer networks to handle EU projects.

As an institute of the Leibniz Association, the IPF is committed to carrying out application-oriented fundamental research and receives its basic funding in equal parts from the federal and state governments.

The approach is holistic, covering synthesis and modification of polymer materials, their characterization and theoretical investigation, up to processing and testing. A special feature of the institute's activities is the close cooperation of scientists and engineers and a broad range of modern instruments and methods are available including pilot plants allowing material and technology development under industry-relevant conditions.

The topics dealt with at the institute are highly future-oriented. They include development of materials, technologies, and systems which are crucial to guarantee the strength of Germany's economy also in future and to ensure both quality of living and sustainability. The polymer materials address innovations for further development in, e. g. medicine, transport and mobility, as well as energy efficiency and advanced communication technologies.

Horizon 2020

th Framework Programme

BioSmartTrainee

Training in Bio-Inspired Design of Smart Adhesive Materials
- Coordinator: IPF
- Marie Sklodowska Curie Action, ITN-ETN 2014
- multidisciplinary training for 11 young scientists

www.biosmarttrainee.eu
contact: Dr. Alla Synytska
mail: synytska@ipfdd.de

FLIPT

Flow Induced Phase Transitions, A new energy paradigm for polymer processing
- FET OPEN 2015 - Research and Innovation Action
- starting date: 1st September 2016

contact: Prof. Jens-Uwe Sommer
mail: sommer@ipfdd.de

SNAL

Smart Nano-objects for Alteration of Lipid-bilayers
- Marie Curie Action, ITN 2013
- multidisciplinary training for 14 young scientists

http://itn-snal.net/
contact: Prof. Dr. Jens-Uwe Sommer
mail: sommer@ipfdd.de

NanoLEAP

Nanocomposite for building constructions and civil infrastructures: European network pilot production line to promote industrial application cases
- Research and Innovation Action, NMP 2014

www.nanoleap.eu
contact: Dr. Uwe Gohs
mail: gohs@ipfdd.de

METAMECH

Template assisted assembly of metamaterials using mechanicals instabilities
- ERC Starting Grant 2012

contact: Prof. Dr. Andreas Fery
mail: fery@ipfdd.de

NanoCF

Tuning the properties of NanoCarbon with Fluorination
- Coordinator: IPF
- Marie Curie Action, IRSES 2013
- research staff exchange between European and international partners

www.nanocf.eu
contact: Dr. Ulrich Scheler
mail: scheler@ipfdd.de

LASER4FUN

European ESRs Network On Short Pulsed Laser Micro/Nanostructuring of Surfaces
- Marie Sklodowska Curie Action, ITN-ETN 2015
- multidisciplinary training for 14 young scientists

www.laser4fun.eu
contact: Prof. Dr. Carsten Werner
mail: werner@ipfdd.de

SOMATAI

Soft Matter at Aqueous Interfaces
- Marie Curie Action, ITN 2012
- multidisciplinary training for 14 young scientists

www.somatai.eu
contact: Prof. Dr. Jens-Uwe Sommer
mail: sommer@ipfdd.de

HYDROZONES

Bioactivated hierarchical hydrogels as zonal implants for articular cartilage regeneration
- large-scale integrating project, NMP 2012
- strategy to regenerate, rather than repair, articular cartilage based on tissues zonal structure and function

www.hydrozones.eu
contact: Prof. Dr. Carsten Werner
mail: werner@ipfdd.de

COMPLETED PROJECTS

LORRY

Development of an innovative low rolling resistance truck tyre concept in combination with a full scale simulation tool box for tyre performance in function of material and road parameters
SST 2012
contac:t Prof. Dr. Gert Heinrich, mail gheinrich@ipfdd.de

WOOD-FLARETCOAT

Flame-retardant coatings based on nano-magnesium hydroxide, huntite and hydromagnesite for wood applications
SME 2012
contact: Prof. Dr. Udo Wagenknecht, mail: wagenknt@ipfdd.de

NEPHROTOOLS

The potential of human kidney stem/progenitor cells use in drug discovery and regenerative programme
ITN 2011
contact: Prof. Dr. Carsten Werner, mail: werner@ipfdd.de

ECNP-GROWTH

Consolidation of the European Centre for Nanostructured Polymers
NMP 2011
contact: Prof. Dr. Brigitte Voit, mail: voit@ipfdd.de

GENIS Lab

The Gender in Science and Technology Lab
SiS 2010
contact: Prof. Dr. Brigitte Voit, mail: voit@ipfdd.de

EMBROIDERY

Development of energy efficient/ lightweight composite parts & tooling based on TFP technology/ self heating technology
SME 2010
contact: Dr. Axel Spickenheuer, mail: spickenheuer@ipfdd.de

ANGIOSCAFF

Angiogenesis-inducing Bioactive & Bioresponsive Scaffolds in Tissue Engineering
NMP 2007
contact: Prof. Dr. Carsten Werner, mail: werner@ipfdd.de

POCO

Carbon Nanotube Confinement Strategies to Develop Novel Polymer Matrix Composites
NMP 2007
contact: Prof. Dr. Manfred Stamm, mail: stamm@ipfdd.de