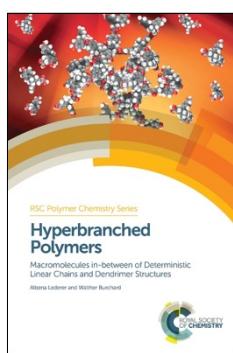
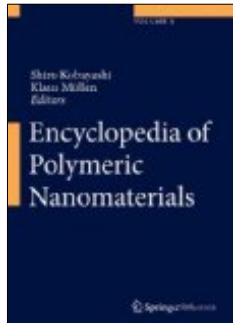


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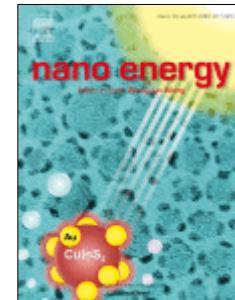
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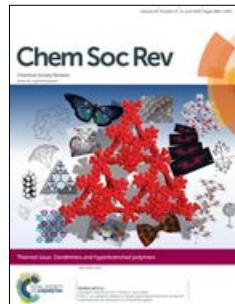
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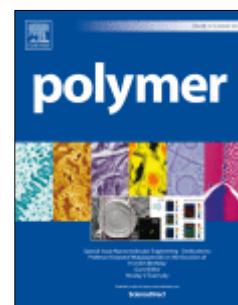
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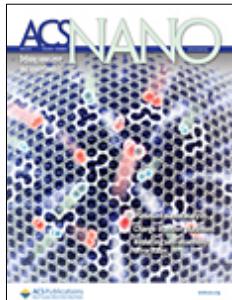
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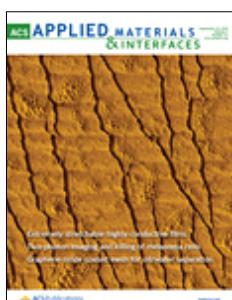


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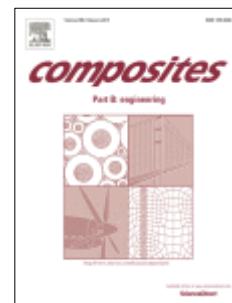
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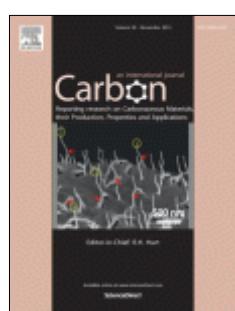
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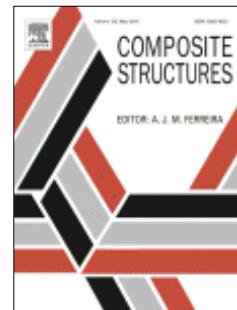
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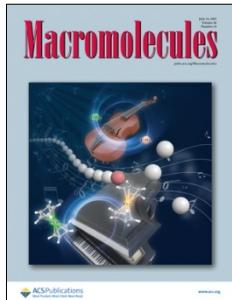
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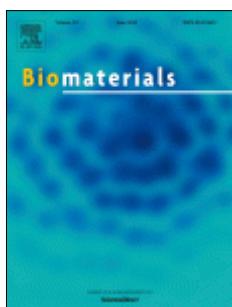
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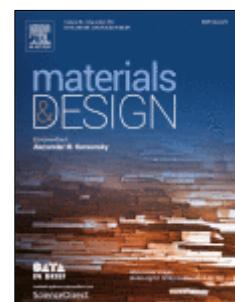
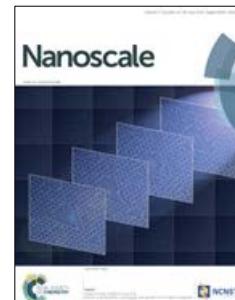
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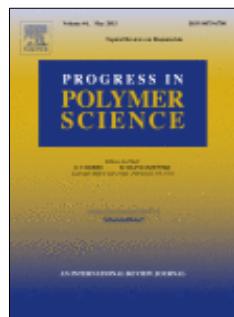
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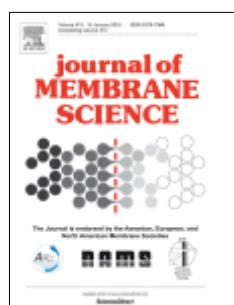
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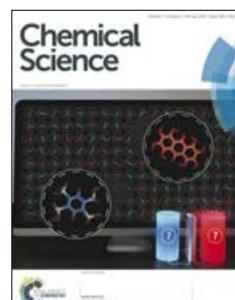
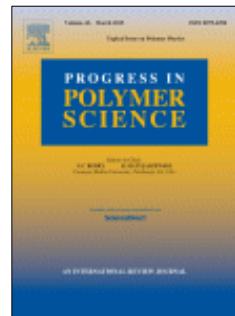
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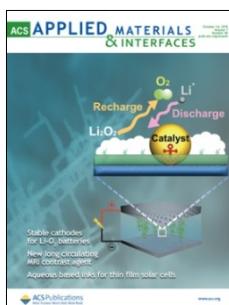
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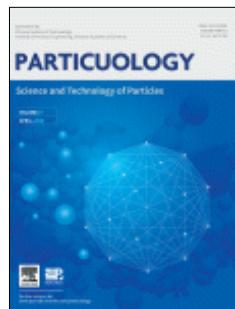


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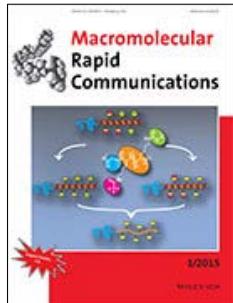
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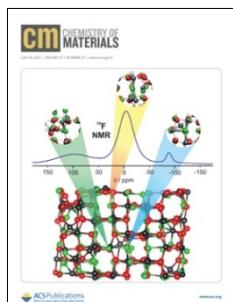
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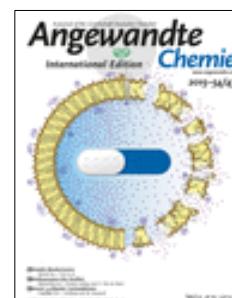


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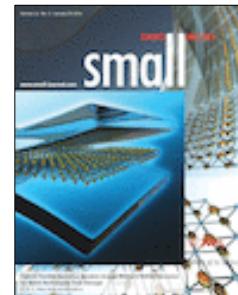
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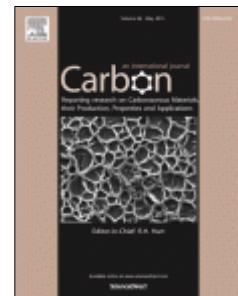
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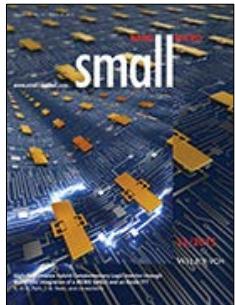
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IPF Dresden, AT: 05.08.2015
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Membranen und Verfahren zu ihrer Herstellung

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Dr. M. Kuhne, K. Uhlig
Verfahren und Messanordnung zum
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Abgeschlossene Graduiierungsarbeiten

Habilitation

Leonid Ionov
Active stimuli-responsive polymer surfaces and thin films: Design, properties and applications
Technische Universität Dresden

Theresa Förster

Einfluss der chemischen Zusammensetzung und der Oberflächenmodifizierung auf die Eigenschaften von Basaltfasern
Technische Universität Dresden

Promotionen

Sumela Banerjee
Supramolecular self-assembly within polymeric materials utilising triple hydrogen bonded heterocomplexes of 4-hydroxy-2,6-diamino pyridine derivates
Technische Universität Dresden

Annegret Jentsch

Untersuchungen zum Einfluss von Additiven auf die Langzeitstabilität von Polyethylenvinyl-acetatfolie bei Einsatz als Einbettmaterial in Photovoltaik-Module
Technische Universität Dresden

Depdipta Basu
Role of zinc containing compounds in nitrile rubber based on micro- and nanocomposites
Technische Universität Dresden

Felix Kroschwitzl

Prozessintegrierter Transfer von Nanopartikeln auf Polycarbonatoberflächen beim Spritzgießen
Technische Universität Dresden

Annette Breier
Grundlegende Untersuchungen zur Integration eines Wirkstofffreisetzungssystems in ein textiles Knochenimplantat am Beispiel des Antibiotikums Gentamicin
Technische Universität Dresden

Eike Müller

Microcavity arrays of ECM-inspired scaffolds for the in vitro culture of hematopoietic stem cells
Technische Universität Dresden

Sourav Chakraborty
Synthesis of magnetic polymeric nanoparticles using RAFT mediated miniemulsion polymerization in presence of amphiphilic ionic liquid as surfactant
Technische Universität Dresden

Evmorfia Psarra

Biofunctionalization of polymer brush surfaces
Technische Universität Dresden

Jianghong Chen
 β -nucleated isotactic polypropylene with different thermo-mechanical histories investigated by synchrotron X-ray
Technische Universität Dresden

Ivan Raguzin

Self-assembly and functionality of polymer bottle brushes on surfaces
Technische Universität Dresden

Emrah Demir
Development of MWNT-polymer and MWNT-polymer-QD nano-composites
Technische Universität Dresden

Samaa Ragab Ali Ragab Salem

Glycopolymers polyelectrolyte multi-layers based on maltose-modified hyperbranched poly(ethyleneimine) for future drug delivery coatings and biomedical applications
Technische Universität Dresden

Nidhi Dubey
Smart hydrogel based platforms for investigation of biochemical reactions
Technische Universität Dresden

Anne Richter

Synthese photovernetzbarer Hydrogelsysteme zur gezielten Immobilisierung von Enzymen
Technische Universität Dresden

Hirak Satpathi

Novel phosphorus containing poly [arylene ether]s as flame retardant additives and as reactant in organic synthesis
Technische Universität Dresden

Abgeschlossene Graduiersarbeiten

Leonard Schellkopf Investigation of conformation in modified switchable polymer brushes in solutions and melts with electron microscopy Technische Universität Dresden	Julia Fernandez Perez Development of the three dimensional bioengineered construct of the corneal limbus Technische Universität Dresden
Sandra B. Starke Multifunktionale (Meth)acrylat-Copolymere mit Phosphonsäurederivaten Technische Universität Dresden	Matthias Gliem Synthese von Blockcopolymeren mit Hilfe der kontrollierten Olefinpolymerisation Technische Universität Dresden
Bernhard Torger Biokompatible Polyelektrolytkomplexe für die kontrollierte Freisetzung von Arzneistoffen zur Hartgeweberegeneration Technische Universität Dresden	Sven Grätz Synthesis of 3,3-(1,4-phenylene)bis(2,4,5-triphenyl-cyclo-pentadienon) Technische Universität Dresden
Sabina Zakrzewska Synthesis of alpha-olefin-based copolymers and nanocomposites Technische Universität Dresden	Tobias Grelle Leckageverhalten von Elastomerdichtungen bei sprungartiger, partieller Entlastung im Bereich tiefer Temperaturen Technische Universität Dresden
Haiping Zhang Pfropfpolymeren definierter Architektur mittels multi-funktioneller Kopplungsreagenzien Technische Universität Dresden	Katrin Hentschel Evaluation of the effect of natural crowding agents on the production of extracellular matrices by mesenchymal stem cells Hochschule Lausitz
Diplom- und Masterarbeiten	
Waseem Akram Herstellung und Charakterisierung hochorientierter, schrumpfarmer und biologisch abbaubarer Filamentgarne für medizinische Anwendungen Technische Universität Dresden	Petr Kolar Micro scale cell carriers for cell transplantation in Parkinson's disease Technische Universität Dresden
Gino Arnold Beurteilung der Stabilität einer prozess-integrierten Modifizierung mit quantitativen Methoden Hochschule Zittau/Görlitz	Sonya Moses Wechselwirkungen von dendritischen Glycopolymeren gegenüber Lektinen Technische Universität Dresden
Josephine Böhme Investigating multi-cellular mechanisms of prostate tumor growth and angiogenesis within a bioengineered 3 D microenvironment Technische Universität Dresden	Madeleine Müller Synthese von phosphorhaltigen biobasierten Polyester und Untersuchung ihres thermischen Degradations- und Brandverhaltens Technische Universität Dresden
Olga Cibotaru Superkondensatoren auf Basis von Graphen Technische Universität Dresden	Martin Peiter Etablierung einer enzymatischen Kaskadenreaktion in der Mikrofluidik Technische Universität Dresden

Abgeschlossene Graduiierungsarbeiten

Thomas Prenveille Synthesis and characterization of melt-processable semiconductive polymers Technische Universität Dresden	Hans Winger Einfluss wärmeleitfähiger Füllstoffe auf die mechanischen Eigenschaften von spritzgegossenen Polyamid- und Verbundbauteilen Technische Universität Dresden
Philipp Scheibe Kontrollierte Synthese von semifluorierten Methacrylatblockcopolymeren zur Präparation von nanostrukturierten Filmen mit Kohlenstoffnanoröhrchen Technische Universität Dresden	Paul Emil Wolff The development and in vitro characterization of polydopamine disks as a ROS scavenging platform for application in Parkinson's disease Technische Universität Dresden
Anne Schönfeldt Untersuchungen zum Einfluss der Prozessparameter auf die Eigenschaften thermogeformter Becher aus Polystyrol Technische Universität Dresden	Daniel Sebastian Wolz Herstellung und Charakterisierung von CNT/PP-Dispersionen durch Ultraschall aus CNTs und MA-g-PP Technische Universität Dresden
Constanze Secker Development of a three dimensional in vitro culture model to study breast cancer development and metastasis to bone Universität Rostock	Philipp Zimmermann Prozessintegrierte Oberflächenmodifizierung und Charakterisierung von PEEK-Formteilen Hochschule für Technik und Wirtschaft Dresden
Jana Sievers Fabrication and characterization of thermoresponsive and cytokine affine biohybrid hydrogels, based on the building blocks heparin and N-isopropylacrylamide (NiPAAm) Technische Universität Dresden	Bachelorarbeiten
Robert Sommerschuh Charakterisierung polymerbasierender Anti-Eis-Beschichtungen Technische Universität Dresden	Marius Asal Dynamisches Skalenverhalten von Polymeren verschiedener Topologien in oszillierenden Kraftfeldern Technische Universität Dresden
Aline Stiβel Chemical-engineered cell-made scaffolds as novel cell culture platform Technische Universität Dresden	Julia Berger Untersuchung des Einflusses der OH-Zahl von Polyesterharzen auf die thermischen, rheologischen und mechanischen Eigenschaften von Polyallophanat-Pulverlacken Hochschule für Technik und Wirtschaft Dresden
Riyas Subair High performance polymer membrane decorated with gold nano particle for catalytic application Technische Universität Dresden	Patricia Flemming Festphasenreaktionen zur Kopplung von Hydrogelen auf PMMA-Trägern Technische Universität Dresden
	Martin Geisler Funktionalisierung und Wechselwirkungsuntersuchungen von dendritischen Hybridstrukturen mit Alzheimer-Amyloiden Hochschule für Technik und Wirtschaft Dresden

Abgeschlossene Graduiierungsarbeiten

Marcel Händler

Untersuchungen zum Copolymerisationsverhalten von Phosphonsäuremethacrylaten
Hochschule für Technik und Wirtschaft Dresden

Christoph Hentschel

3D-Drucken von Biohybrid-Hydrogelen
Hochschule für Technik und Wirtschaft Dresden

Christopher Schutzeichel

Synthese und Charakterisierung von multi-responsiven gepropften Hydrogelen
Technische Universität Dresden

Matthias Wellmann

Licht- und elektronenmikroskopische Charakterisierung von Gummi-Bruchflächen nach Bruch bei unterschiedlichen Belastungsmoden
Christian-Albrechts-Universität zu Kiel

Preise und Auszeichnungen

C³ - Carbon Concrete Composite
Verbundprojekt unter Beteiligung des IPF im
BMBF-Programm „Zwanzig20-Partnerschaft
für Innovation“
Deutscher Nachhaltigkeitspreis Forschung 2015



Professor Gert Heinrich
Carl-Dietrich-Harries-Medaille der Deutschen
Kautschuk-Gesellschaft e.V. (DKG)



Übergabe des Preises an Prof. Gert Heinrich (Mitte)
durch Herrn Peter Steinl (rechts) und Dr. Jörg Böcking
(links), ehemaliger bzw. aktueller Vorsitzender der DKG

Professor Gert Heinrich
Colwyn-Medaille des Institute of Materials,
Minerals and Mining (IOM3)
für herausragende Leistungen für die
Gummibranche

Dr. Laura Bray
Lush Young Researcher Prize
für ihre Arbeiten zur Entwicklung von hydrogel-
basierten dreidimensionalen
Zellkulturplattformen

Dr. Amit Das
Sparks-Thomas Award der Rubber Division der
American Chemical Society
für herausragende Arbeiten auf dem Gummi-
und Elastomergebiet

Matthieu Fischer
Oechsler-Preis des Wissenschaftlichen
Arbeitskreises der Universitätsprofessoren der
Kunststofftechnik (WAK)
für seine Diplomarbeit „Spritzgießbedingte
Grenzschichten: Simulation und neue Prüf-
methoden“



Matthieu Fischer mit
der Betreuerin seiner
Diplomarbeit, Dr. Ines
Kühnert, sowie Prof. Gert
Heinrich

Dr. Ben Newland
Dresdner Barkhausen-Nachwuchs-
wissenschaftler-Preis 2015
für sein Poster “Homopolymerization of di-vinyl
monomers for new “knot” structured polymer
materials”



Dr. Ben Newland (2. v. l.) und Stefan Schafföner,
Gewinner eines weiteren Barkhausen-Nachwuchs-
wissenschaftlerpreises, mit Dr. Kerstin Dittes,
Geschäftsführerin der Materialforschungsverbundes
Dresden und Prof. Norbert Meyendorf, Vorsitzender des
Barkhausen-Award-Komitees



Dr. Laura Bray mit ihrer
Auszeichnung

Preise und Auszeichnungen

Dr. Uwe Gohs, Dr. Andreas Leuteritz,
Prof. Dr.-Ing. Udo Wagenknecht,
Jun.-Prof. Dr.-Ing. Sven Wießner,
Dr. Michael Wilms
Innovationspreis des Leibniz-Instituts für
Polymerforschung Dresden e.V.
für die Entwicklung eines Verfahrens zur
Elektronen-induzierten Aufbereitung von
Polymeren

Die Innovationspreisträger in ihrem Arbeitsumfeld:
Dr. Michael Wilms,
Prof. Udo Wagenknecht,
Jun.-Prof. Sven Wießner,
Dr. Uwe Gohs,
Dr. Andreas Leuteritz
(v.l.n.r)



Dr. Sebastian Rauch mit dem Betreuer seiner Doktorarbeit, Prof. Manfred Stamm

Dr. Sebastian Rauch
Doktorandenpreis 2014 des Vereins zur
Förderung des IPF
für seine Dissertation „Entwicklung von
funktionellen Polymerbürsten mit modularen
Eigenschaften“

Judith Hahner
Professor-Franz-Brandstetter-Preis
für ihre Diplomarbeit „Ermittlung und Beurteilung entscheidender Einflussgrößen für die
sticktechnische Gestaltung der ligamentären
Strukturzone eines vorderen Kreuzbandes“



Die Preisträgerin Judith Hahner mit dem Stifter und Namensgeber ihrer Auszeichnung, Prof. Franz-Brandstetter, sowie Prof. Brigitte Voit

Johannes Fingernagel
Posterpreis des 7th International Symposium on
the Separation and Characterization of Natural
and Synthetic Macromolecules
für das Poster „Investigation of multifunctional
bio-hybrid structures made of proteins and
dendritic glycopolymers characterized by
various analytical tools“
Autoren: J. Fingernagel, J. Malý, B. Voit,
D. Appelhans

Jaime Alejandro Puentes Parodi
Posterpreis der 31st International Conference of
the Polymer Processing Society (PPS) in Jeju
Island, Südkorea
für das Poster „Degradation kinetics and
lifetime predictions of rigid polyurethane for
insulating steel pipes“
Autoren: J. A. Puentes Parodi, I. Kühnert,
A. Leuteritz



Prof. Jin Kon Kim (Pohang University of Science & Technology, PPS-31-Co-Chair), Jaime Alejandro Puentes Parodi, Dr. Ines Kühnert (v.l.n.r.)

David Simon
2. Preis im Posterwettbewerb der Tagung
„Intelligent Materials 2015“
für das Poster „Buildup of enzymatic reaction
cascades in/on hydrogel dots in microfluidic
processes“
Autoren: D. Simon, T. Heroldt, S. Häfner,
A. Richter, D. Appelhans, B. Voit

Wissenschaftleraustausch

IPF Fellows

- Prof. Sergei A. Egorov
University of Virginia, Department of Chemistry, USA
- Prof. Barbara Klajnert-Maculewicz
University of Lodz, Department of General Biophysics, Poland
- Prof. Mathias Schubert
University of Nebraska-Lincoln, Department of Electrical & Computer Engineering, USA
- Dr. Philipp Seib
Strathclyde University, Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom

Prof. De-Yi Wang
Madrid Institute for Advanced Studies of Materials, Spain

Gastwissenschaftler und Gaststudenten am IPF (Auswahl)

Humboldt-Stipendiaten

- Prof. Hossein Ali Khonakdar
Iran Polymer and Petrochemical Institute, Department of Polymer Processing, Tehran, Iran
Experimentelle Untersuchungen und Simulation zu Polymerblends
1.7.2015 bis 30.9.2015
- Prof. Rimantas Kublickas
Lithuanian University of Health Sciences, Institute of Endocrinology, Kaunas, Lithuania
Molecular imprinting of non-covalently linked human growth hormone dimers
7.4.2015 bis 5.8.2015
- Prof. Kinsuk Naskar
Indian Institute of Technology Kharagpur, Rubber Technology Centre, India
Correlation between morphology and mechanical properties in nanocomposites based on thermoplastic elastomers (TPEs) and nanofillers/nanofibres
11.5.2015 bis 10.8.2015

Dr. Xingjie Zan
Georgia Institute of Technology, School of Chemical & Biomolecular Engineering, Atlanta, USA
Cross-linked capsules with independently tuned properties for multi-anticancer drugs delivery
1.9.2015 bis 31.8.2016

Prof. Qingbin Zheng
University of Shanghai for Science and Technology, China
Development of highly transparent and conducting grapheme/CNT hybrid films
26.8.2013 bis 31.12.2015

DAAD-Stipendiaten

Airit Agasty
Indian Institute of Technology Kharagpur, Rubber Technology Centre, India
Mechanically adaptive water responsive elastomer composites
1.10.2015 bis 31.3.2016

Suman Basak
Indian Institute of Technology Kharagpur, Rubber Technology Centre, India
Phase specific carbon black localization in ternary rubber blends
1.10.2015 bis 31.3.2016

Chih-Chich Chien
National Cheng Kung University, Department of Chemical Engineering, Tainan City, Taiwan
Synthese von Polyisocyanaten
3.11.2014 bis 26.6.2015

Pritam Das
Indian Institute of Technology Kharagpur, Rubber Technology Centre, India
Nanostructured surfaces with enhanced antifouling property
13.10.2014 bis 31.3.2015

Tushar Kanti Das
Indian Institute of Technology Kharagpur, India
Nanostructured graphene membranes for catalytic and environmental remediation
1.9.2015 bis 31.3.2016

Wissenschaftleraustausch

Khrystyna Demydova National Academy of Sciences of Ukraine, L.M. Litvinenko Institute of Physical-Organic Chemistry and Coal Chemistry, Donetsk, Ukraine Synthesis and characterization of the nanostructures based on polymer-inorganic networks 1.10.2015 bis 30.6.2016	Bin Hao Chinese Academy of Sciences, The Xinjiang Technical Institute of Chemistry and Physics, China Multi-functional glass fibres for the monitoring of structural defects in FRPs 1.7.2015 bis 23.9.2015
Shamila Firdaus Indian Institute of Technology Kharagpur, Materials Science Centre, India Glyco-pseudodendrimers on a polyester basis: Synthesis and investigation of protein- pseudodendrimer interaction 1.10.2015 bis 31.3.2016	Silvia Jaerger Universidade Federal do Paraná, Curitiba, Brasil Preparation and characterization of LDH polyethylene nanocomposites with varying metal combinations 1.6.2015 bis 30.11.2016
Hristina Dimitrova Grancharova Sofia University "St. Kliment Ohridski", Bulgaria Application of the asymmetrical flow field-flow fractionation (AF4) for polymeric drug delivery systems 28.12.2014 bis 28.2.2015 23.9.2015 bis 1.10.2015	Dr. Debabrata Nandi University of Calcutta, Department of Chemistry, India Interaction of π -conjugated polymer with nanostructured functionalized graphene for high energy storage electrode fabrication 1.12.2015 bis 30.11.2016
Yachong Guo Universitat Rovira i Virgili, Escola Tècnica Superior d'Enginyeria Química, Tarragona, Spain Theory and simulations of lipid bilayers interacting with nano-object 16.6.2015 bis 9.7.2015 17.11.2015 bis 11.12.2015	Dr. Igor Puzyrev Ural Branch of the Russian Academy of Sciences, I.Ya. Postovsky Institute of Organic Synthesis, Russia Biocatalytic core-shell particles for the enzymatic synthesis of biodiesel 8.9.2015 bis 7.11.2015
Vaibhav Gupta Indian Institute of Technology Delhi, Physics Departement, India Structured copolymer templates for photonic application 1.9.2015 bis 31.3.2016	Manta Roy Indian Institute of Technology Kharagpur, Rubber Technology Centre, India Synthesis and characterization of a polyionic liquid and its application in modification of poly(isobutylene) 1.9.2014 bis 31.3.2015
Sakrit Hait Indian Institute of Technology Kharagpur, Rubber Technology Centre, India Selective wetting of graphene in NR/BIIR blends 1.10.2015 bis 31.3.2016	Mauricio Vasquez Rendon EAFIT University, Medellín, Antioquia, Colombia Morphological and interfacial study of polymer blends obtained from engineering polymers 31.8.2015 bis 31.10.2015

Wissenschaftleraustausch

Monique Janine Schmidt

University of Pretoria, South Africa

Zero-effluent synthesis of anion-intercalated
layered double hydroxides for use in polymers
7.4.2015 bis 31.7.2015

Marin Simoeonov

Sofia University "St. Kliment Ohridski",
Department of Pharmaceutical and Applied
Organic Chemistry, Bulgaria

Application of the asymmetrical flow field-flow
fractionation (AF4) for polymeric drug delivery
systems
28.12.2014 bis 28.2.2015
2.9.2015 bis 1.10.2015

Dr. Elena Dimitrova Vassileva

Sofia University "St. Kliment Ohridski",
Department of Pharmaceutical and Applied
Organic Chemistry, Bulgaria
Application of the asymmetrical flow field-flow
fractionation (AF4) for polymeric drug delivery
systems
2.9.2015 bis 6.9.2015

Erasmus-Stipendiaten

Francesca Lorenzi

University of Padova, Italy

Synthesis and biological characterization of a
glutathione sensitive PEG based hydrogel for
applications in neurodegenerative diseases
1.3.2015 bis 30.9.2015

Luca Vellani

The University of Milan, Milano, Italy

Synthesis and characterization of ion-exchange
materials
5.3.2015 bis 30.6.2015

Weitere

Prof. Rameshwar Adhikari

Tribhuvan University, Central Department of
Chemistry, Kathmandu, Nepal

Structure-properties correlations in flexible
conducting polymer/elastomer
nanocomposites
1.10.2015 bis 30.11.2015

Dr. Mahmoud Al-Hussein

The University of Jordan, Physics Department,
Amman, Jordan

Water filtration membranes, organic solar
cells and on design of LiS batteries based on
polymers
30.6.2015 bis 29.8.2015

Lesly Kelly Lagos Araujo

Pontificia Universidad Católica del Perú, Lima,
Peru

Hydrogel actuators with double responsive-
ness and their application in chemical
transistors
7.4.2015 bis 31.7.2015

Dr. Mohammad Arjmand

University of Calgary, Department of Chemical
and Petroleum Engineering, Canada

Polymer blend nanocomposites with carbon
based fillers
20.7.2015 bis 19.8.2015

Prof. Gilles Ausias

Université de Bretagne-Sud, LIMATB, Lorient,
France

Intrinsic viscosity and material coefficients of
non-linear dilute suspension of axisymmetric
spheroids
13.12.2015 bis 18.12.2015

Adrien Berthault

Universitat Rovira i Virgili, Tarragona, Spain

Bond fluctuation model and MD techniques for
construction of a generalized force field
28.9.2015 bis 14.11.2015

Wissenschaftleraustausch

Dr. Laura Jane Bray Queensland Eye Institute, South Brisbane, Australia Strategies to enhance the clinical potential of silk fibroin scaffolds through engineering of an artificial stem cell niche for limbal transplantation 1.3.2013 bis 28.2.2015	Dr. Chayan Das Visvesvaraya National Institute of Technology, Department of Chemistry, Nagpur, India Elastomer composites based on in-situ filled titania 4.6.2015 bis 11.7.2015
Dr. Xue-Zheng Cao Xiamen University, Department of Physics and ITPA, Xiamen, China Nanoparticle polymer interactions 1.7.2015 bis 31.8.2015	Thompson Delon University of Nebraska-Lincoln, Department of Civil Engineering, USA Transport und separation of nanoparticles using GLAD structures 26.10.2015 bis 15.12.2015
Tuhin Chatterjee Indian Institute of Technology Kharagpur, Rubber Technology Centre, India Development of high-performance TPV nanocomposites 1.5.2015 bis 31.7.2015	Dr. Oleksandr Dolynchuk Martin-Luther-Universität Halle-Wittenberg, Germany Theory and simulation of crystallization in polymer networks with application to shape- memory effects 12.10.2015 bis 11.10.2016
Liyu Chen The University of Queensland, Australian Institute of Bioengineering & Nanotechnology, St Lucia, Australia Hemocompatibility assessment of nanoparticles 26.10.2015 bis 17.11.2015	Florica Doroftei Institute of Macromolecular Chemistry "Petru Poni" Iasi, Romania Morphological studies in multiphase polymer systems 1.8.2015 bis 31.8.2015 Preliminary tests on the synthesis of microcapsules based on calcium carbonate and pH-sensitive polymers 23.11.2015 bis 4.12.2015
Dr. Soumyadip Choudhury Leibniz-Institut für Neue Materialien (INM), Saarbrücken, Germany Nanostructured and porous systems for energy storage 1.8.2015 bis 31.7.2016	Antoine Dran Université de Rennes 1, France Characterization of CNT dispersions using analytical centrifuge 11.4.2015 bis 4.7.2015
Dr. Wei Cui Xiamen University, Department of Physics and ITPA, China Nanoparticles interacting with lipid membranes 6.10.2014 bis 31.3.2015	Swati Gahlot Central Salt & Marine Chemicals Research Institute, Bhavnagar, India Graphene oxide based nano-composite ion exchange membranes for water purification 1.8.2015 bis 31.1.2016
Nicole Darling University of California, Department of Chemistry and Biomolecular Engineering, Los Angeles, USA Designing scaffolds for therapeutic angiogenesis 17.9.2015 bis 20.11.2015	Cristina Gorostiza Acebo Universitat Rovira i Virgili, Tarragona, Spain PEI modification for production of photo- crosslinkable thin multilayers 7.4.2015 bis 7.10.2015

Wissenschaftleraustausch

Dr. Nikifor Stefanov Haralampiev
Bulgarian Academy of Science, Institute of
Organic Chemistry with Centre of
Phytochemistry, Sofia, Bulgaria
Creation of specialized electronic library for art
investigation, identification and conservation of
Bulgarian cultural heritage
3.12.2015 bis 11.12.2015

Prof. Jaroslav Ilnytskyi
National Academy of Sciences of Ukraine,
Institute for Condensed Matter Physics, Lviv,
Ukraine
Coarse-grained computer simulations of
azobenzene polymer networks
25.4.2015 bis 25.6.2015

Aleksandra Ivanoska Dacicj
Ss. Cyril and Methodius University in Skopje,
Faculty of Technology and Metallurgy,
Macedonia
Elastomere für seismische Anwendungen
1.5.2015 bis 30.6.2015

Silvia Jaerger
Universidade Federal do Paraná, Curitiba,
Brasil
Preparation and characterization of LDH
polyethylene nanocomposites with varying
metal combinations
1.6.2015 bis 30.11.2016

Dr. Aurel Gheorghe Jurjui
Babes-Bolyai University, Department of
Theoretical and Computational Physics, Cluj-
Napoca, Romania
Theory and simulations of hyperbranched
polymers
1.1.2015 bis 30.6.2015

Prof. Marcin Marek Kaminski
Lodz University of Technology, Department of
Structural Mechanics, Poland
Finite element method analysis of the rubber-
like materials in the hyperelastic regime
15.7.2015 bis 15.9.2015

Tomas Kublickas
Kaunas University of Technology, Lithuania
Materials and nanotechnologies
13.7.2015 bis 4.8.2015

Negin Kananizadeh
University of Nebraska-Lincoln, Department of
Civil Engineering, USA
Transport and separation of nanoparticles
using GLAD structures
27.5.2015 bis 20.7.2015

Prof. Jozsef Karger-Kocsis
Budapest University of Technology and
Economics, Department of Polymer
Engineering, Hungary
Fracture mechanics characterization of rubber
materials with standard and pyrolytic carbon
blocks produced
16.9.2015 bis 15.10.2015

Prof. Dipak Khastgir
Indian Institute of Technology Kharagpur,
Rubber Technology Centre, India
Development of conductive composites as
pressure-sensitive sensor
11.5.2014 bis 10.7.2015

Dr. Jaroslaw Klos
Adam Mickiewicz University, Faculty of
Physics, Poznan, Poland
Dendritic brushes in external electric fields
1.7.2015 bis 30.9.2015

Justyna Knapik
University of Silesia, Institute of Physics,
Katowice, Poland
Analysis of PVT and rheological behaviour of
amorphous pharmaceuticals
7.6.2015 bis 21.6.2015

Dr. Rajesh Kumar Kotha
Indian Institute of Technology Bombay,
Department of Metallurgical Engineering and
Material Science, Corrosion Science and
Engineering, Mumbai, India
Encapsulation of catalysts, their
characterization and use for low-temperature
thermosetting systems
12.1.2015 bis 29.5.2015

Wissenschaftleraustausch

Zaneta Kublik Warsaw University of Technology, Faculty of Materials Science and Engineering, Poland Physicochemical surface modification of biodegradable composite material to increase cell adhesion on fiducial markers 1.4.2015 bis 30.6.2015	Dr. Chuanfu Luo Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Theory & Bio-Systems, Potsdam, Germany Theorie und Simulation der Kristallisation von Polymeren 01.6.2015 bis 31.12.2016
Prof. Myong-Hoon Lee Chonbuk National University, Department of Macromolecule and Nano-Engineering, Jeonju, South Korea Herstellung und Charakterisierung fotoaktiver Polymere 1.7.2014 bis 30.6.2015	Dr. Sergey V. Lyulin Russian Academy of Sciences, Institute of Macromolecular Compounds, Saint Petersburg, Russia Atomistically detailed simulations of polyimides 31.10.2015 bis 4.11.2015
Dr. Cheng Li Zhejiang University, China Preparation and properties of CNT/polymer nanocomposites 31.7.2015 bis 16.2.2016	Dr. Maria Makarova Saint Petersburg State University, Department of Atmospheric Physics, Russia Structure-property relationships of diketopyrrolopyrrole-based-conjugated copolymers with thiophene 1.5.2015 bis 31.7.2015
Shuoran Li University of California, Department of Chemistry and Biomolecular Engineering, Los Angeles, USA Designing scaffolds for therapeutic angiogenesis 19.10.2015 bis 18.12.2015	Dr. Maria Makarova Saint Petersburg State University, Department of Atmospheric Physics, Russia Transport properties of diketopyrrolo-thiophene polymer: A computational study 19.10.2015 bis 20.12.2015
Dr. Marcin Libera Polish Academy of Sciences, Centre of Polymer and Carbon Materials, Poland Polymer microcapsules prepared by micellization of block copolymers for catalytic applications 1.6.2015 bis 30.6.2015 1.11.2015 bis 30.11.2015	Berardo Mario Manzi Universitat Rovira i Virgili, Departament d'Enginyeria Química, Tarragona, Spain Translocation of two-state polymers through lipid membranes 5.6.2015 bis 4.7.2015
Prof. Jason Locklin University of Georgia, Department of Chemistry and College of Engineering, Athens, USA Nanostructured interfaces by using polymer brushes 17.5.2015 bis 24.5.2015	Esperanza Elisabeth Martinez Segovia Centro de Investigación en Química Aplicada, Departamento Procesos Transformación de Plastics, Saltillo, Mexico Effect of graphenic structures on the thermal conductivity of compounds of HDPE 2.7.2015 bis 7.8.2015
	Dr. Mohau Jacob Mateyisi Stellenbosch University, South Africa Theory of self-healing polymer networks 8.6.2015 bis 31.12.2016

Wissenschaftleraustausch

Prof. Holger Merlitz Xiamen University, Department of Physics and ITPA, China Theorie und Simulation von Polymeren an Oberflächen 1.1.2015 bis 31.12.2015	Dr. Sorin Nedelcu National Institute for Research and Development in Microtechnologies, Bucharest, Romania Electrophoretic mobility of charged polymers with strongly bound counterions in external fields: Theoretical models and computer simulations 2.2.2015 bis 31.5.2015
Dr. Marcela Mihai Institute of Macromolecular Chemistry "Petru Poni" Iasi, Romania Preliminary tests on the synthesis of microcapsules based on calcium carbonate and pH-sensitive polymers 23.11.2015 bis 4.12.2015	Dr. Benjamin Newland National University of Ireland, Galway, Ireland Biomaterial assisted dopaminergic neuron replacement for Parkinson's disease 4.10.2013 bis 3.10.2016
Arghyadip Mukherjee Indian Institute of Science, Bangalore, India Theory and simulations of active polymer chains 1.5.2015 bis 31.7.2015	Dr. Maria da Conceicao J.R. Paiva University of Minho, Department of Polymer Engineering, Portugal Polymer/graphene composites: Dispersion studies and functionalization effects 15.9.2015 bis 14.12.2015
Susan Mulansky Technische Universität Dresden, Institut für Lebensmittel- und Bioverfahrenstechnik, Germany Messung der Adhäsionskräfte von Bakterien an mikrostrukturierten, bioinspirierten Oberflächen 8.9.2015 bis 31.12.2015	Dr. Denitsa Yancheva Pantaleeva Bulgarian Academy of Science, Institute of Organic Chemistry with Centre of Phytochemistry, Sofia, Bulgaria Creation of specialized electronic library for art investigation, identification and conservation of Bulgarian cultural heritage 3.12.2015 bis 11.12.2015
Dr. Bhanu Nandan Indian Institute of Technology Delhi, Department of Textile Technology, India Multifunctional nanofibers via block copolymer self-assembly 1.6.2015 bis 31.7.2015	Christos Papadimitriou Technische Universität Dresden, Center for Regenerative Therapies, Germany A ¹²⁴ 2-mediated neurodegeneration and regenerative plasticity in zebrafish and human cell cultures 23.3.2015 bis 31.12.2016
Prof. Kinsuk Naskar Indian Institute of Technology Kharagpur, Rubber Technology Centre, India Correlation between morphology and mechanical properties in nanocomposites based on thermoplastic elastomers (TPEs) and nanofillers/nanofibres 11.8.2015 bis 10.10.2015	Dr. Tatjana O. Petrova Cherepovets State University, Chair of Physics, Vologda, Russia Theoretical study of photo-mechanical properties of azobenzene-containing elastomers 18.5.2015 bis 17.6.2015 19.10.2015 bis 17.12.2015

Wissenschaftleraustausch

Dr. Xianping Qiu China Aerospace Science and Technology Corporation, Hubei Institute of Aerospace Chemo Technology, China Preparation and characterization of microgel particles with multiple functions 08.12.2014 bis 7.12.2015	Dr. Tarek Sayed Mohamed Salem National Research Centre, Textile Research Division, Egypt Development of sensitive chemosensors for environmental pollutants monitoring by textile-based nano-silica doped dyes 1.4.2014 bis 31.8.2015
Dr. Liangliang Qu China Petroleum and Chemical Corporation (Sinopec Corp.), Beijing Research Institute of Chemical Industry, China Location and distribution of filler and additives in rubber systems 1.9.2014 bis 31.8.2015	Prof. Tatiana Segura University of California, Department of Chemistry and Biomolecular Engineering, Los Angeles, USA Designing scaffolds for therapeutic angiogenesis 1.8.2015 bis 30.6.2016
Rajaraman Ramakrishnan CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, India Surface enhanced Raman scattering based biosensor developed from robust silver/gold nanoparticles entrapped polymeric hydrogels 1.9.2014 bis 28.2.2015	Mthokozisi Mayibongwe Sibanda University of Pretoria, Department of Chemical Engineering, South Africa Repellant modified polyethylene fibers for Malaria safeguard 6.5.2015 bis 31.7.2015
Arunima Reghunadhan Mahatma Gandhi University, Kerala, India Analysis of cure kinetics of epoxy-recycled polyurethane blends 15.8.2015 bis 14.11.2015	Melissa Sikosana University of Cape Town, Department of Chemical Engineering, South Africa Renewable antimicrobial in situ coatings 9.11.2015 bis 5.2.2016
Dr. Keith Brian Rodenhausen University of Nebraska-Lincoln, Department of Chemical and Biomolecular Engineering and Nebraska Center for Materials and Nanoscience, USA Proteinadsorption an nanostrukturierten Oberflächen 1.2.2015 bis 30.4.2015	Dr. Stoyanov Stoyaonov Simeon Bulgarian Academy of Sciences, Institute of Organic Chemistry with Centre of Phytochemistry, Sofia, Bulgaria Creation of specialized electronic library for art investigation, identification and conservation of Bulgarian cultural heritage 3.12.2015 bis 11.12.2015
Prof. Juan Carlos Rueda Sanchez Pontifical Catholic University of Peru, Lima, Peru Hidrogeles actuadores con doble sensibilidad y su aplicación en transistores químicos 1.3.2015 bis 15.4.2015	Prof. Nikhil K. Singha Indian Institute of Technology Kharagpur, Rubber Technology Centre, India Composites containing nanocarbon fillers/polyionic liquids 1.6.2015 bis 30.6.2015
	Patrick Skelly Colorado School of Mines, USA Membrane functionalization for high impact separation in asymmetric flow field-flow fractionation 20.6.2015 bis 22.8.2015

Wissenschaftleraustausch

Dr. Lucian Staicu University of Franche-Comté, Department of Science and Technology, France Characterisation of different chitosan sorbents 10.10.2015 bis 15.10.2015	Prof. Sabu Thomas Mahatma Gandhi University Kerala, School of Chemical Sciences, Kottayam, India Elastomer nanocomposites and their sensors in flexible electronics 9.3.2015 bis 12.3.2015
Tamil Selvi Sundaram Universität Hohenheim, Stuttgart, Germany FmocFF based nanostructures and their potential in pharmaceutical formulations 1.11.2015 bis 30.4.2016	Dr. Jyrki Erik Vuorinen Tampere University of Technology, Department of Materials Science, Finland Self-healing dielectric elastomer actuators 15.6.2015 bis 23.6.2015
Prof. Uttandaraman Sundararaj University of Calgary, Department of Chemical and Petroleum Engineering, Canada Electrical and thermal conductive properties of polymer nanocomposites 27.7.2015 bis 26.8.2015	Marco Werner Universitat Rovira i Virgili, Departament d'Enginyeria Química, Tarragona, Spain Theorie und Simulation der Wechselwirkung von Polymeren mit Lipidmembranen 1.11.2015 bis 31.10.2016
Michela Talò Sapienza University of Rome, Department of Structural and Geotechnical Engineering, Italy Preparation and characterization of polymer/CNT nanocomposites 1.12.2014 bis 1.9.2015	Ansiretha Wiid University of Pretoria, South Africa Hydrothermal synthesis of calcium based layered double hydroxide for use in polymers 7.4.2015 bis 31.7.2015
Dr. Peter Tamas Budapest University of Technology and Economics, Department of Control for Transportation and Vehicle Systems, Hungary Toughening of epoxy resins with elastomers 1.7.2015 bis 30.9.2015	Prof. Luke Yan Chang'an University, Department of Polymer Materials and Chemistry, Xi'an, China Study and development of Zinc dimethacrylate (ZDMA) - XNBR formulations for improving rubber-steel-adhesion 8.10.2014 bis 30.9.2015
Laurent Thomas University of Strasbourg, France Development of hollow nanocarriers for gene/drug delivery, via the layer by layer deposition method 1.4.2015 bis 30.9.2015	Dr. Jinghui Yang Southwest Jiaotong University, School of Materials Science and Engineering, Chengdu, China Conductive nanocomposites and its underlying mechanism 21.10.2014 bis 309.2015
Martin Georg Thomas Indian Institute of Technology Kharagpur, India Morphology (TEM, SEM, AFM) and scattering studies 5.2.2015 bis 1.4.2015	Dr. Chunhong Ye Georgia Institute of Technology, School of Materials Science & Engineering, Atlanta, USA Dynamic tunable plasmonic activities from autonomic reconfigurable 3.12.2015 bis 31.1.2016

Wissenschaftleraustausch

Arbeitsaufenthalte von Wissenschaftlern des IPF (Auswahl)

Josef Brandt University of Amsterdam, Van't Hoff Institute for Molecular Sciences, Analytical Chemistry, Amsterdam, The Netherlands Interaction chromatography for the investigation of thermo-reversibly bonding Diels-Alder polymers (unterstützt durch den Förderverein des IPF) 25.1.2015 bis 30.4.2015	Majid Farzin Eindhoven University of Technology, Department of Chemical Engineering and Chemistry, The Netherlands Investigation of the role of the solvent size on the depletion interaction between two surfaces in polymer solution (gefördert im EU-Marie-Curie-ITN SOMATAI) 14.6.2015 bis 1.8.2015
Baobao Chang Deutsches Elektronen-Synchrotron DESY, PETRA III/MiNaXs-Beamline, Hamburg, Germany Temperature dependent investigation of dissipation and structural changes during deformation of semi-crystalline polymers 20.6.2015 bis 29.6.2015	Theresa Förster Chinese Academy of Sciences, Xinjiang Technical Institute of Physics & Chemistry, Urumqi, China Glass fibres with multi-functional properties for defect monitoring in FRP structures (gefördert durch den Deutschen Akademischen Austauschdienst) 26.5.2015 bis 27.6.2015
Ankush Checkervarty Universitat Rovira i Virgili, Tarragona, Spain SCMF method for construction of a general force field (gefördert im EU-Marie-Curie-ITN SNAL) 1.3.2015 bis 8.4.2015	PD Dr. Marina Grenzer Perm State University, Institute of Continuous Media Mechanics of the Ural Branch of the Russian Academy of Sciences, Perm, Russland Modeling of static and dynamic mechanical properties of polymer materials 22.11.2015 bis 27.11.2015
Tim Erdmann Polyera Corporation, Skokie, and Northwestern University, Evanston, USA Synthesis of randomized polymers comprising pi-conjugated and pi-deconjugated units and synthesis of backbone-planarized NDI polymers (gefördert über ein INSPIRE Grant des Cluster of Excellence "Center for Advancing Electronics Dresden - cfaed") 6.3.2015 bis 4.6.2015	Marcus Heinze Ivoclar Vivadent AG, Abteilung Biotechnologie, Schaan, Liechtenstein Remineralisationsfördernde Netzwerke (Finanzierung durch Ivoclar Vivadent AG) 1.11.2015 bis 6.11.2015
Eric Euchler PRL Polymer Research Lab, Zlin, Czech Republic TFA-Charakterisierung von Elastomeren 29.9.2015 bis 2.10.2015	Dr. Andriy Horechyy Polish Academy of Sciences, Centre of Polymer and Carbon Materials, Zabrze, Poland Polymer-Mikrokapseln hergestellt durch Mizellenbildung von Block-Copolymeren für katalytische Anwendungen 1.4.2015 bis 30.4.2015 7.8.2015 bis 18.8.2015 7.12.2015 bis 18.12.2015
	Dr. Dieter Jehnichen Bruker AXS, Applikationslabor/Training-Center, Karlsruhe, Germany TOPAS Rietfeld-Analysen 19.4.2015 bis 25.4.2015

Wissenschaftleraustausch

Dr. Ines Kühnert University of Pretoria, Institute of Applied Materials, South Africa Processing and product development, shaping processes of plastics, and assembly injection molding 31.7.2015 bis 7.8.2015	Dr. Jürgen Pionteck Mahatma-Gandhi-University, School of Chemical Sciences, International and Inter University Centre for Nanoscience and Nanotechnology, Kottayam, India Electrically conductive composites (Regierungsstipendium von Kerala/Indien) 9.11.2015 bis 17.11.2015
Dr. Bernd Lauke Budapest University of Technology and Economics, Department of Polymer Engineering, Hungary Modelling of fracture mechanical behaviour of elastomers and elastomer composites 7.4.2015 bis 20.4.2015	Dr. Jürgen Pionteck Donghua University, College of Materials Science and Engineering, State Key Laboratory for Modification of Chemical Fibers and Polymeric Materials, Shanghai, China Electrically conductive composites for sensor applications (Stipendium der Donghua University) 19.11.2015 bis 25.11.2015
Dr. Bernd Lauke University of Buenos Aires, Institute of Polymer Technology and Nanotechnology ITPN (UBA-CONICET), Argentina Mechanical tests and failure analysis of composites as well as modelling of micro and nanocomposites 23.4.2015 bis 12.5.2015	Dr. Konrad Schneider Deutsches Elektronen-Synchrotron DESY, PETRA III/MiNaXs-Beamline, Hamburg, Germany Temperature-dependent investigation of dissipation and structural changes during deformation of semi-crystalline polymers 21.6.2015 bis 23.6.2015
Edith Mäder Chinese Academy of Sciences, Xinjiang Technical Institute of Physics Chemistry, Urumqi, China Glass fibres with multi-functional properties for defect monitoring in FRP structures (gefördert durch den Deutschen Akademischen Austauschdienst) 26.5.2015 bis 3.6.2015	Chanfei Su Universitat Rovira i Virgili, Tarragona, Spain Mapping single chain mean field theory and MD models (gefördert im EU-Marie-Curie-ITN SNAL) 30.4.2015 bis 31.5.2015
Valentina Magno Charité - Universitätsmedizin Berlin, Institut für Medizinische Immunologie, Germany HK-2 and mouse mesangial cell-derived ECM for the culture of intermediate mesoderm progenitors 13.4.2015 bis 17.4.2015	Chanfei Su University of Strasbourg, Institut Charles Sadron, France MD simulation of interaction of vesicles with polymers (gefördert im EU-Marie-Curie-ITN SNAL) 4.11.2015 bis 29.1.2016
Dr. Manfred Maitz Southwest Jiaotong University, Chengdu, China Entwicklung eines Tiermodells zur ex-vivo-Charakterisierung aktiv-antikoagulanter Oberflächen 25.4.2015 bis 25.5.2015	Prof. Udo Wagenknecht University of Pretoria, Institute of Applied Materials, South Africa Compounding and electron-induced reactive processing 1.8.2015 bis 7.8.2015

Wissenschaftleraustausch

Marco Werner
Universitat Rovira i Virgili, Tarragona, Spain
Biomaterials and their interactions with
biological and membranes
13.10.2015 bis 27.10.2015

Cordelia Zimmerer
Vilnius University, Department of General
Physics and Spectroscopy, Lithuania
New insights into polymer chemistry and
polymer analysis
(gefördert im Erasmus-Programm der EU)
5.10.2015 bis 9.10.2015

Wissenschaftliche Veranstaltungen

3. Sächsisches TEM-Präparatorentreffen
21. April 2015, Dresden

6th Dresden Tire Workshop: Tire Technology for Fuel Efficiency
Gemeinsam mit Technische Universität Dresden
24. April 2015, Dresden

Bruker Metrology Workshops:
Atomic Force Microscopy Workshop on Advanced Bio- and Materials Characterisation & Industrial Applications
28. bis 30. April, 2015 Dresden

24. Seminar Kunststoffrecycling in Sachsen
Veranstaltung der IG Kunststoffrecycling in Sachsen (IG KURIS) mit IPF
5. Mai 2015, Dresden

European Polymer Congress 2015 (Biennial meeting of the European Polymer Federation)
gemeinsam mit der Gesellschaft Deutscher Chemiker e.V. (GDCh)
21. bis 26. Juni 2015, Dresden



Teilnehmer des European Polymer Congress 2015



Dr. Eva-Maria Stange, Sächsische Staatsministerin für Wissenschaft und Kunst und Schirmherrin des Kongresses, bei ihrem Grußwort zur Eröffnung

Wissenschaftsforum Chemie „Chemie verbindet“

Kongress der Gesellschaft Deutscher Chemiker (GDCh) unter Mitwirkung von TU Dresden und IPF
30. August bis 2. September 2015, Dresden

Werkstoffwoche „Werkstoffe für die Zukunft“/
Materialsweek „Materials for the Future“
Kongress und Messe der Deutschen Gesellschaft für Materialkunde (DGM) unter Mitwirkung u.a. des Materialforschungsverbundes Dresden (MFD)
14. bis 17. September, Dresden

Engineering Life Conference "Synthetic Biology meets Bioinspired Materials"
gekoppelt mit dem 10th Max Bergmann Symposium
gemeinsam mit TU Dresden und B CUBE
29. September bis 1. Oktober 2015, Dresden



Diskussionen bei der Engineering Life Conference

23. Neues Dresdner Vakuumtechnisches Kolloquium „Beschichtung und Modifizierung von Kunststoffoberflächen“
im Rahmen der V2015 Industrieausstellung und Workshop-Woche Vakuumbeschichtung und Plasmaoberflächentechnik
Gemeinsam mit Europäische Forschungsgesellschaft Dünne Schichten (EFDS) u.a.
14. und 15. Oktober 2015, Dresden

Wissenschaftliche Veranstaltungen

Dresden Conference "Energy in Future"
ausgerichtet durch zahlreiche Partner in
Dresden
10. und 11. November 2015, Dresden



Prof. Udo Wagenknecht,
Vertreter des IPF im
Organisationskomitee

TECHNOMER 2015: 24. Fachtagung über
Verarbeitung und Anwendung von Polymeren
12. und 13. November 2015, Chemnitz
Gemeinsam mit der TU Chemnitz sowie dem
Kunststoff-Zentrum Leipzig



Teilnehmer der Technomer 2015 in der Technischen
Universität Chemnitz

9th Aachen-Dresden International Textile
Conference
26. und 27. November 2015, Aachen
Gemeinsam mit dem Institut für Textil-
maschinen und Textile Hochleistungs-
werkstofftechnik der TU Dresden, dem DWI an
der Rheinisch-Westfälischen Technischen
Hochschule (RWTH) Aachen u.a.

Wissenschaftliche Kolloquien

Indra Apsite

University of Latvia, Institute of Chemical Physics, Riga, Latvia
Synthesis and optical characterization of multilayer systems containing ultra-thin anodized aluminum oxide
29. Mai 2015

Prof. Abhijit Bandyopadhyay

University of Calcutta, India
Excavating natural materials as green multi-functional additive for rubber compounds
12. Februar 2015

Dr. Scott W. Barton

Molmex Scientific Inc., Northampton, MA, USA
Modern applications and strategies for laboratory SAXS/WAXS (small single X-ray scattering/Wide angle X-ray scattering)
11. Dezember 2015

Prof. Gregory Beaucage

University of Cincinnati, Department of Chemical and Materials Eng. Lab, Cincinnati, OH, USA
Neutron and X-ray scattering studies on filled elastomers to determine compatibility
15. Juli 2015

Dr. Annabelle Bertin

Bundesanstalt für Materialforschung und -prüfung (BAM), Fachbereich Polymere in Life Science und Nanotechnologie, Berlin
Dendron-based macromolecules and supramolecular architectures for medical diagnosis and therapy
9. Juni 2015

Dr. Dhananjay Bodas

Agharkar Research Institute, Pune, Maharashtra, India
Perfusion based 3D cell culture for efficiency studies on cancer
14. Dezember 2015

Dr. Caterina Cocchi

Humboldt-Universität zu Berlin, Institut für Physik und IRIS Adlershof
Excitons in azobenzene-functionalized self-assembled monolayers from many-body perturbation theory
13. Mai 2015

Dr. Marco Drache

Technische Universität Clausthal
Einführung in die statistische Versuchsplanung
9. Februar 2015
Berechnung von Sequenzverteilungen der radikalischen Copolymerisation mit Monte-Carlo-Methoden
10. Februar 2015

Dr. Karin Eberhart

Merck Chemicals GmbH, Schwalbach
Using microfluidics for real-time imaging of in-vitro cell models - CellASIC™ ONIX microfluidic platform
19. Februar 2015

Cindy Elschner

IPF, Abteilung Polyelektrolyte und Dispersionen
The application of magnetic resonance imaging in biomaterial research
5. März 2015

Dr. Petr Formanek

IPF, Abteilung Nanostrukturierte Materialien
Morphology of materials for organic electronics: How it relates to the device performance and how to make it visible
8. Oktober 2015

Prof. Dr. Christiane Helm

Ernst-Moritz-Arndt Universität Greifswald, Institut für Physik
Influence of molecular weight on growth and interdiffusion in polyelectrolyte multilayer films
11. November 2015

Wissenschaftliche Kolloquien

Univ.-Prof. Dr. Kurt Hingerl
Universität Linz, Zentrum für Oberflächen-
flächen- und Nanoanalytik, Österreich
Insight in the optical properties of
pristine/doped polymers
12. Januar 2015

Dr. Klaus Jähnichen
IPF, Abteilung Polymerstrukturen
Biobasierte Monomere - Aktuelle
Entwicklungen
5. November 2015

Prof. George John
The City College of New York, Department
of Chemistry, New York, NY, USA
Functional materials - Biomass as a plat-
form for molecular design
4. Juni 2015

Prof. Dr. Jozsef Karger-Kocsis
Budapest University of Technology and
Economics, Department of Polymer
Engineering, Budapest, Hungary
Recent trends in polymer composites
1. Oktober 2015

Justyna Knapik
Silesian Center for Education and
Interdisciplinary Research, Chorzów,
Poland
Polymeric additives as stabilizers of
amorphous pharmaceuticals
18. Juni 2015

Cor Koning
DSM Coating Resins, Zwolle, Netherlands
Chemistry and properties of renewable
coatings
23. Oktober 2015

Dr. Christian Kuttner
IPF, Abteilung Nanostrukturierte
Materialien
Tailored plasmonics in nanoparticle
assemblies
3. Dezember 2015

Dr. Kristina Lachmann
Fraunhofer-Institut für Schicht- und
Oberflächentechnik IST, Braunschweig
Kombinationen von Atmosphärendruck-
plasma und Nasschemie - Potenziale und
Anwendungen
2. Juni 2015

Dr. Bernd Lauke
IPF, Abteilung Mechanik und Struktur
Mechanical- and fracture mechanical
behaviour of fibre- and particle filled
polymers and bimaterials (Modelling of
properties and experiments)
4. Juni 2015

Prof. Jason Locklin
University of Georgia, Department of
Chemistry and College of Engineering,
Athens, GA, USA
Creating complex interfaces using surface-
initiated polymerization and post-
polymerization modification
21. Mai 2015

Jinji Luo
Technische Universität Chemnitz, Center
for Microtechnologies
Developing polymers and polymer/nano-
inclusions composites as light weight and
flexible thermoelectric materials
6. März 2015

Prof. Dr. Sergey Lyulin
Institute of Macromolecular Compounds,
St. Petersburg, Russia
Atomistically detailed simulations of
polyimides
2. November 2015

Dr. Michel Martin
University Paris Diderot, CNRS, École
Super Phys & Chim Ind, Paris, France
Comparison of field-flow fractionation and
size exclusion chromatography:
Mechanisms, performances, scope and
limitations
5. Februar 2015

Wissenschaftliche Kolloquien

Prof. Dr.-Ing. Markus Michael
Technische Universität Chemnitz, Institut
für Fördertechnik und Kunststoffe
Textile Maschinenelemente in förder-
technischen Anwendungen
30. April 2015

Dr. Marcela Mihai
"Petru Poni" Institute of Macromolecular
Chemistry, Iasi, Romania
Polymeric additives and templates for
calcium carbonate growth
30. November 2015

Dr. Petr Mikes
University of Liberec, Czech Republic
Functionalization of nano and microfibrous
vascular grafts by nitric oxide
27. Oktober 2015

Prof. Antoni C. Mitus
Wroclaw University of Technology,
Wroclaw, Poland
Surface relief gratings: Experiment, Monte-
Carlo simulations and stochastic modeling
16. Juni 2015

Dr. R. Mukhopadhyay
Hari Shankar Singhania Elastomer & Tyre
Research Institute, Haryana, India
Green mobility - Challenges and
opportunities of rubber industry
3. Juli 2015

Dr. Ilya Morozov
Ural Branch of the Russian Academy of
Sciences, Institute of Continuous Media
Mechanics, Perm, Russia
Structural-mechanical model of filled
rubber: From local to macroscopic
properties via direct structural mechanical
simulation
16. April 2015

Dr. Joel A. Pedersen
University of Wisconsin, Center for
Sustainable Nanotechnology, Madison, WI,
USA
Interaction of engineered nanoparticles
with model cell membranes: Influence of
lipid composition and non-lipid components
21. Oktober 2015

Dr. Jürgen Pionteck
IPF, Abteilung Funktionale Nanokomposite
und Blends
Anwendungen der PVT-Analyse in der
Polymerforschung - Synthese, Vernetzung,
Phasenübergänge und Materialparameter
7. Mai 2015

Prof. Volker Presser
Leibniz-Institut für Neue Materialien
gGmbH Saarbrücken
Insights into electrosorption with
complementary in situ interfacial
electrochemistry
12. Juni 2015

Prof. Dr. Boryan Radoev
University of Sofia "St. Kliment Ohridski",
Department of Physical Chemistry, Sofia,
Bulgaria
Statics and dynamics of capillary bridge
23. Juli 2015

Prof. Suprakas Sinha Ray
DST/CSIR National Centre for Nanostruc-
tured Materials, Pretoria, South Africa
Concurrent enhancement of multiple
properties in reactively processed
nanobiocomposites of polylactide
1. April 2015

Dr. Ilya Reviakine
Karlsruhe Institute of Technology,
Institute for Functional Interfaces
Selective platelet activation by surfaces and
soluble agonists
11. März 2015

Wissenschaftliche Kolloquien

- Dr. Keith Brian Rodenhausen
IPF, Abteilung Nanostrukturierte Materialien/University of Nebraska-Lincoln, Department of Chemical and Biomolecular Engineering and Nebraska Center for Materials and Nanoscience, Lincoln, NE, USA
Combinatorial quartz crystal microbalance with dissipation and spectroscopic ellipsometry techniques to characterize organic layers at the solid-liquid interface
15. April 2015
- Dr. Hannah Schmidt-Glenewinkel
Weizmann Institute of Science, Department of Molecular Genetics, Rehovot, Israel
Loss of growth homeostasis by genetic decoupling of cell division from biomass growth: Implication for size control mechanisms
19. März 2015
- Prof. Mathias Schubert
University of Nebraska-Lincoln, Department of Chemical and Biomolecular Engineering Lincoln, NE, USA
The invisible light
27. Mai 2015
- Prof. Sebastian Seiffert
Freie Universität Berlin, Institut für Chemie und Biochemie
Sensitive microgels as microcapsules and model colloids
21. April 2015
- Prof. Sebastian Seiffert
Helmholtz-Zentrum Berlin, Institut für Weiche Materie und funktionelle Materialien
Effect and evolution of nanostructural complexity in sensitive polymer gels
27. November 2015
- Dr. Katrin R. Siefermann
Leibniz-Institut für Oberflächen-modifizierung, Leipzig
Ultrafast electron dynamics at interfaces
5. Oktober 2015
- Prof. Hans-Georg Simon
Stanley Manne Children's Research Institute, Chicago, IL, USA
A dynamic extracellular matrix instructs regenerative cell behavior
23. Februar 2015
- Dr. Narayanasastri Somanathan
Central Leather Research Institute, Polymer Laboratory, Chennai, India
Conjugated polymers for optoelectronics
23. November 2015
- Prof. Wojciech Swieszkowski
Warsaw University of Technology, Warsaw, Poland
Advanced methods for design, fabrication and characterization of tissue engineered constructs
10. Juni 2015
- Prof. Sabu Thomas
Mahatma Gandhi University Kottayam, International and Inter University Centre for Nanoscience and Nanotechnology, Kerala, India
Bio inspired green micro and nanocomposites for the future
11. März 2015
- Bernhard Torger
IPF, Abteilung Polyelektrolyte und Dispersionen
Controlled drug release by biocompatible polyelectrolyte complexes for hard tissue regeneration
22. Januar 2015
- Dr. Bijay Prakash Tripathi
IPF, Abteilung Nanostrukturierte Materialien
Smart membranes for environmental and biochemical applications
19. März 2015

Wissenschaftliche Kolloquien

Prof. Dr. Chrys Wesdemiotis
University of Akron, Department of
Chemistry and Polymer, Akron, OH, USA
Multidimensional mass spectrometry
methods for the analysis of polymers and
advanced materials
18. September 2015

Dr. De-Yi Wang
Madrid Institute for Advanced Studies of
Materials (IMDEA Materials Institute),
Madrid, Spain
From nanotechnology to high performance
flame retardant polymer materials
28. Juli 2015

Dr. Jinghui Yang
IPF, Abteilung Verarbeitungsprozesse
Selective localization of nanofillers in
immiscible blends and its resultant
properties
3. September 2015

Messen, Präsentationen und Ausstellungen

Messeauftritte

Präsentation innerhalb des Gemeinschaftsstandes sächsischer Firmen auf der JEC Composites Show
10. bis 12. März 2015, Paris, Frankreich

Präsentation innerhalb des Gemeinschaftsstandes des Materialforschungsverbundes Dresden auf der Werkstoffwoche „Materialien für die Zukunft“
14. bis 17. September 2015, Dresden

Gemeinschaftsstand des MFD zur Werkstoffwoche



Präsentation im Gemeinschaftsstand von Organic Electronic Saxony e. V. auf der SEMICON/Plastics Electronics
6. bis 8. Oktober 2015, Dresden

Gemeinschaftsstand des Organic Electronic Saxony e. V.

Präsentation auf der Compamed 2015 Düsseldorf, 16. bis 19. November 2015 als Gast auf dem Stand von Medizin & Technik, Konradin-Verlag



Präsentation auf dem Stand von Medizin & Technik, Konradin-Verlag

Präsentation auf der Messe SAMPE Japan Tokio, Japan, 6. bis 9. Dezember 2015 als Guest auf dem Stand der Firma Tajima

Veranstaltungen für die allgemeine Öffentlichkeit

Girls' Day 2015
23. April 2015

Veranstaltungen innerhalb des Junior-Doktor-Programms des Netzwerks „Dresden Stadt der Wissenschaft“
Experimentalvorlesung „Vom Molekül zum Kunststoff“
12. Mai 2015



Teilnehmer (3.-5. Klasse) der Vorlesung beim Experimentieren

Vortrag und Führung „Kunststoffe in Form gebracht“
21. Oktober 2015



Teilnehmer (6.-8. Klasse) bei der Besichtigung des Technikums

Messen, Präsentationen und Ausstellungen

Institutsführung im Rahmen von „Ein Tag vor Ort“, Laborbesichtigungsprogramm der Deutschen Physikalischen Gesellschaft
17. November 2015

8 Besuche von Schülergruppen am IPF mit insgesamt ca. 150 Teilnehmern.

Sonstige Veranstaltungen

Jahresempfang des IPF
16. April 2015, Dresden

Kunstausstellungen

Struktur und Verwandlung
Fotografie
Helga Luzens
15. Januar bis 30. März 2015

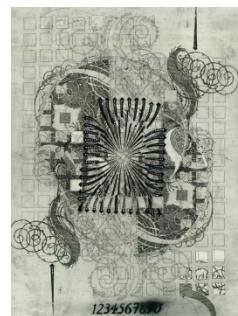
Geralf Grems: 100 Jahre Gartenstadt Hellerau
und Dyrck Bondzin: 700 Jahre Klotzsche
9. April bis 31. Juli 2015

Transcriptions
Druckgraphik
Prof. Christopher Daniggelis
5. August bis 30. Oktober 2015

Ausstellung der Malgruppe der Dresdner
Seniorenakademie Wissenschaft und Kunst
Malerei
10. November 2015 bis 31. März 2016



Helga Luzens:
Irrlichter



Prof. Christopher
Daniggelis:
Transcriptions



Karin Borsch (Dresdner
Seniorenakademie):
Bergan

Lehrtätigkeit, Berufungen und Berufsausbildung

Professuren von leitenden Mitarbeitern des IPF

Technische Universität Dresden

Fakultät Mathematik und Naturwissenschaften, Fachrichtung Chemie und Lebensmittelchemie
Prof. Dr. Brigitte Voit - Professur für Organische Chemie der Polymere
Prof. Dr. Manfred Stamm - Professur für Physikalische Chemie Polymerer Materialien (bis 03/2015)
Prof. Dr. Andreas Fery - Professur für Physikalische Chemie Polymerer Materialien (seit 03/2015)
Prof. Dr. Carsten Werner - Professur für Biofunktionelle Polymermaterialien

Fakultät Mathematik und Naturwissenschaften, Fachrichtung Physik
Prof. Dr. Jens-Uwe Sommer - Theorie der Polymere

Fakultät Maschinenwesen, Institut für Werkstoffwissenschaft
Prof. Dr. Gert Heinrich - Professur für Polymerwerkstoffe und Elastomertechnik
Prof. Dr. Edith Mäder - Honorarprofessur Grenzflächen, Grenzschichten und mechanische Eigenschaften von Verbundwerkstoffen
Jun.-Prof. Dr.-Ing. Sven Wießner - Juniorprofessur für Elastomere Werkstoffe

Brandenburgische Technische Universität Cottbus-Senftenberg

Fakultät Ingenieurwissenschaften und Informatik
Prof. Dr.-Ing. Udo Wagenknecht - Honorarprofessur für Kunststofftechnik

University of Toronto, Kanada

Institute of Biomaterials and Biomedical Engineering
Prof. Dr. Carsten Werner - Adjunct Professor

Tampere University of Technology, Finland

Dr. Amit Das - Visiting Faculty

University of Nebraska-Lincoln, USA

Department of Chemistry
Dr. Petra Uhlmann - Adjunct Professor

Mahatma-Gandhi-University Kottayam, Kerala, Indien

International and Inter University Centre for Nanoscience and Nanotechnology
Prof. Dr. Manfred Stamm – Chair Professorship in Nanoscience and Nanotechnology
Dr. Jürgen Pionteck - Erudite Visiting Professor

Berufungen von IPF-Mitarbeitern auf Professuren

University of Georgia, USA

PD Dr. Leonid Ionov
Assistant Professor for Polymer Science, Fibres and Materials

Weitere Lehrverpflichtungen von Mitarbeitern des IPF

Technische Universität Dresden

Fakultät Mathematik und Naturwissenschaften, Fachrichtung Chemie und Lebensmittelchemie
PD Dr. Doris Pospiech - Privatdozentur im Gebiet Makromolekulare Chemie
PD Dr. Martin Müller - Privatdozentur im Gebiet Makromolekulare Chemie
PD Dr. Albena Lederer - Privatdozentur im Gebiet Physikalische Chemie
Dr. Alla Synytska - Vorlesungstätigkeit im Gebiet Physikalische Chemie im Rahmen des laufenden Habilitationsverfahrens
PD Dr. Leonid Ionov - Privatdozentur im Gebiet Physikalische Chemie
Dr. Ulrich Scheler - Vorlesungstätigkeit im Masterstudiengang Chemie

Fakultät Mathematik und Naturwissenschaften, Fachrichtung Physik
Dr. Torsten Kreer - Vorlesungstätigkeit Theoretische Polymerphysik sowie Numerik und Computersimulationen in der weichen kondensierten Materie
Dr. Michael Lang - Vorlesungstätigkeit Numerik und Computersimulationen in der weichen kondensierten Materie

Lehrtätigkeit, Berufungen und Berufsausbildung

Fakultät Maschinenwesen

PD Dr. Marina Grenzer - Privatdozentur für Rheologie komplexer Fluide
PD Dr. Hans-Georg Braun – Privatdozentur für Werkstoffwissenschaften
Dr. Ines Kühnert - Vorlesungstätigkeit im Institut für Werkstoffwissenschaft im Rahmen des laufenden Habilitationsverfahrens

Biotechnologisches Zentrum

PD Dr. Hans-Georg Braun – Lecturer
Dr. Julian Thiele – Lehrauftrag

Dresden International Graduate School for Biomedicine and Bioengineering

Prof. Dr. Carsten Werner
Prof. Dr. Brigitte Voit
PD Dr. Hans-Georg Braun

Center for Advancing Electronics Dresden cfaed (mit integrierter Graduate School)

Prof. D. Brigitte Voit
Prof. Manfred Stamm
Prof. Jens-Uwe Sommer

International Helmholtz Graduate School NanoNet, Course Polymers in Microelectronics and Optoelectronic Applications

Prof. D. Brigitte Voit
Dr. Anton Kiriy
Dr. Eva Bittrich

Hochschule für Technik und Wirtschaft Dresden

Studiengang Chemieingenieurwesen,
Vorlesungsreihe Polymerwissenschaften
PD Dr. Martin Müller, Dr. Alla Synyska,
Dr. Ulrich Schulze, Dr. Ines Kühnert

Brandenburgische Technische Universität Cottbus-Senftenberg

Fakultät Ingenieurwissenschaften und Informatik
Fachbereich Informatik/Elekrotechnik/
Maschinenbau
Jun.-Prof. Dr.-Ing. Sven Wießner,
Lehrbeauftragter für Elastomertechnik

Vorlesungsreihen gehalten von/unter Mitwirkung von Dozenten aus dem IPF

Technische Universität Dresden

Fakultät Mathematik und Naturwissenschaften,
Fachrichtung Chemie und Lebensmittelchemie
im Bachelor- und Master-Studiengang Chemie

- Makromolekulare Chemie I und II
- Funktionspolymere
- Synthese von Polymermaterialien
- Verzweigte Polymere
- Nanostrukturen an Oberflächen und in dünnen Filmen
- Biophysikalische Chemie A
- Analytik von festen Polymeren
- Streuung und Mikroskopie
- Physical Characterization of Organic and Organic-Inorganic Thin Films
- Analytik von Polymeren in Lösungen
- NMR-Spektroskopie

Spezialveranstaltungen für Fortgeschrittene und Doktoranden bzw. Veranstaltungen für nicht zugeordnete Studiengänge

- Polyelektrolyte
- Physikalische Chemie und Physik der Polymere
- Kolloquium Makromolekulare Chemie
- Kolloquium Physikalische Chemie/
Elektrochemie
- Forschungsseminar Makromolekulare Chemie
- Forschungsseminar Nanostrukturierte Polymere
- Forschungsseminar Biophysikalische Chemie
- Wissenschaftliches Kolloquium der Gesellschaft Deutscher Chemiker und der Fachrichtung

Fakultät Mathematik und Naturwissenschaften,
Fachrichtung Physik

in den Vertiefungsgebieten Theoretische Physik und Weiche Kondensierte Materie und Biologische Physik bzw. im Masterstudiengang Organic and Molecular Electronics

- Introduction to the Physics of Soft Condensed Matter
- Spezielle Kapitel der Thermodynamik und Statistischen Physik
- Theoretical Polymer Physics
- Scaling Concepts in Polymer Physics
- Numerik und Computersimulationen in der weichen kondensierten Materie

Lehrtätigkeit, Berufungen und Berufsausbildung

für Lehramt

- Thermodynamik und Statistik
- Spezialveranstaltungen für Doktoranden
 - Doktorandendenseminar: Spezielle Kapitel der Theoretischen Polymerphysik

Fakultät Maschinenwesen

- Institut für Strömungsmechanik
- Theoretische Polymerrheologie

Institut für Werkstoffwissenschaft

- Polymere Werkstoffe
- Grundlagen der Polymerwerkstoffe
- Funktions-, Hochleistungs- und Spezialpolymerwerkstoffe
- Polymerwerkstofftechnologie und Anwendungen
- Elastomere
- Prozess-Gefüge-Eigenschaften polymerer Werkstoffe
- Polymers in Microtechnology and Nanotechnology
- Diffraction Methods in Macromolecular and Nanoscience
- Polymer Morphology
- Weiche Materie: Mikrostrukturierung und Selbstorganisation

Biotechnologisches Zentrum im Masterstudiengang Nanobiophysics

- Diffraction Methods
 - Microsystems and Bioinspired Structures plus Lab Course
 - im Masterstudiengang Molecular Bioengineering
 - Microsystems Technology plus Lab Course
 - Applied Bionanotechnology
 - Surface Chemistry
- im Masterstudiengang Regenerative Biology and Medicine
- Material Science and Tissue Engineering

Fakultät Elektrotechnik

- Graduiertenkolleg: Nano- und Biotechniken für das Packaging elektronischer Systeme
- Polymers in Nano- and Microtechnology (Fundamentals)

Außerdem betreuen Mitarbeiter des IPF eine Vielzahl von Praktika im Rahmen der genannten Vorlesungen.

Brandenburgische Technische Universität Cottbus-Senftenberg

Fakultät Ingenieurwissenschaften und Informatik

Fachbereich Informatik/Elektrrotechnik/Maschinenbau:

- Aufbau und Materialverhalten von Kunststoffen
- Hochleistungs- und Funktionskunststoffe
- Elastomertechnik

Hochschule für Technik und Wirtschaft Dresden

Studiengänge Chemieingenieurwesen und Wirtschaftsingenieurwesen

- Polymerwissenschaften

Sonstige

Forschungsseminar Polymerwerkstoffe am IPF, Spezialveranstaltung für Doktoranden (Prof. Dr. Gert Heinrich)

Berufsausbildung

In Kooperation mit Partnern ist das Institut in der Berufsausbildung aktiv.

Gemeinsam mit dem Berufsschulzentrum Radebeul und der Sächsischen Bildungsgesellschaft für Umweltschutz und Chemieberufe Dresden werden Chemielaboranten ausgebildet. 2015 befanden sich 11 Auszubildende am IPF in der Ausbildung zum Chemielaboranten.

In Zusammenarbeit mit dem Berufsschulzentrum „Otto Lilienthal“ Freital und der Industrie- und Handwerkskammer Dresden wird eine Ausbildung zum Industriemechaniker Feingerätebau angeboten.

Im Jahr 2015 hatte ein Auszubildender einen entsprechenden Ausbildungsvertrag mit dem IPF.

Bei der Ausbildung von Berufsakademiestudenten der Fachrichtung Biotechnologie kooperiert das Institut mit der Berufsakademie Riesa. 2015 war das IPF für 10 Berufsakademiestudenten Ausbildungsunternehmen.