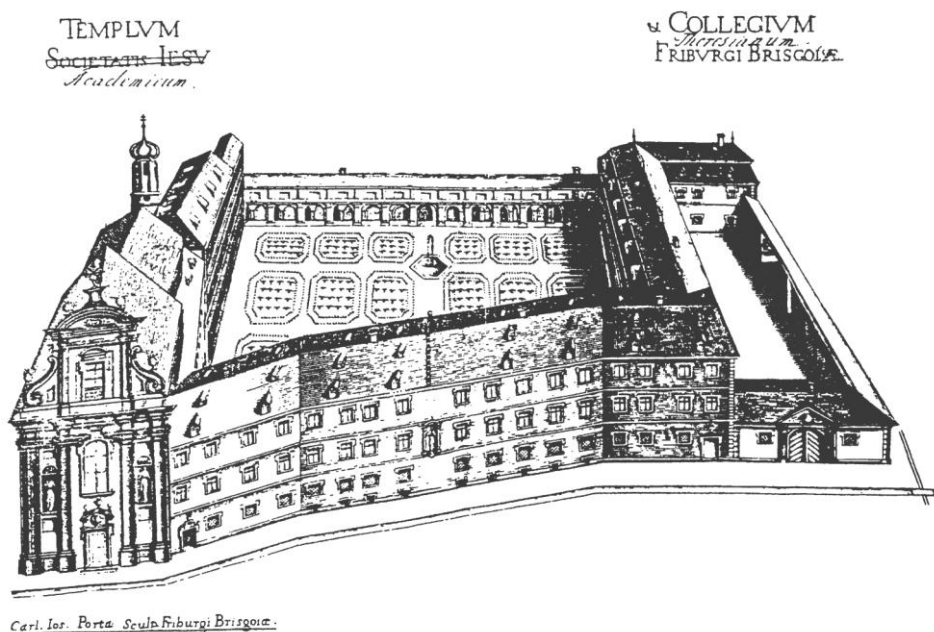


MAKROMOLEKULARES KOLLOQUIUM FREIBURG

26th – 28th FEBRUARY 2014

AUDIMAX, KOLLEGIENGEBÄUDE II (KG II)
AULA, KOLLEGIENGEBÄUDE I (KG I)

YOU ARE CORDIALLY INVITED BY
H.-J. CANTOW R. MÜLHAUPT
G. REITER V.P. SHASTRI



INSTITUTE FOR
MACROMOLECULAR
CHEMISTRY
HERMANN-STAUDINGER-HAUS

W E D N E S D A Y , F E B R U A R Y 26TH, 2014

HVI-SPONSORED SESSION ON BIOENGINEERING AND MULTIFUNCTIONAL BIOMATERIALS

14:00 Opening Remarks Mülhaupt/Shastri

- 14:10 B.RATNER (University of Washington, USA)
Pondering the Meaning of Biocompatibility and its Implications for Tissue Engineering
- 14:50 M.BASTMEYER (KIT Karlsruhe), B. Richter, T. Pauloehrl, A.M. Greiner, T. Autenrieth, M. Wegener, G. Delaitre, C. Barner-Kowollik
Bio-functionalized 3D-Scaffolds for Cell Studies
- 15:20 A.PANDIT (University of Galway, Ireland), Y. Lang
Hierarchical Functionalisation of Living Substrates

15:50 COFFEE BREAK

- 16:05 W.MEIER (Uni Basel), X. Zhang, C. Palivan
Immobilized Nanoreactors and Biomimetic Block Copolymer Membranes
- 16:45 K.LANDFESTER (MPI Mainz), S. Baloushev
Nanocapsules Meet Optics: New Possibilities for Biomedical Applications
- 17:15 **Poster Session and Mixer**

- 1 D.STÖBENER (Uni Berlin), M.Dimde, B.Ziem, F.Paulus, R.Schulze, D.Steinhilber, I.Steinke, P.Welker, S.Wedepohl, K.Licha, J.Dernedde, R.Haag
Biological Properties of Polyglycerol Sulfates – Influence of the Polymer Architecture
- 2 B.TORGER (Leibniz-Institut Dresden), D. Vehlows, B. Woltmann, U. Hempel, R. Schwartz-Albiez, D. Appelhans, M. Müller
Biorelated Polyelectrolyte Complex Nanoparticle Films for Bone Therapeutic Drug Delivery
- 3 A.FORGET (Uni Freiburg), R.G.Barbera, B.Fogli, A.Banfi, V.P.Shastri
Instructive Biomaterials for Therapeutic Angiogenesis
- 4 S.BOYE (Leibniz-Institut Dresden), L.Scharfenberg, D.Walter, D.Appelhans, A.Lederer
Characterization of Branched Glycopolymers and their Molecular Interactions
- 5 H.WANG (Uni Bayreuth), S.Agarwal
Dual Functional Degradable and Antibacterial Polycaprolactone
- 6 T.WEIL (Uni Ulm), Y.Wu, D.M.W.Ng, S.Ling Kuan, T.Wang
Supramolecular Assembly of Bioactive Protein-Hybrid Architectures
- 7 R.MILDNER (TU Braunschweig), K.Haak, H.Menzel
PH-responsive, Synthetic Glycopolypeptides and their Interaction with Lectins
- 8 I.TEASDALE (JKU Linz), O.Brüggemann
Degradable Water Soluble Polymers for Biomedical Applications
- 9 J.YANG (Wageningen University Netherlands), M.Kamperman, M.A. Cohen Stuart
Effect of Branching and Molecular Composition on Adhesion of a Bio-inspired Adhesive
- 10 M.KATHER (RWTH Aachen), C.Dähling, H.Keul, M.Möller, A.Pich
Eugenol-Functionalized Macromonomers for Design of Microgels with Anti-Inflammatory Properties
- 11 N.ANWAR (RWTH Aachen), A.Kühne
Functional Conjugated Polymer Particles for Bio-medical Applications
- 12 J.WICHTER (Uni Saarland), G.Wenz, T.Albuzat, M.Keil, P.Dandekar, R.Jain, C.-L.Lehr
Cellular Delivery of Polynucleotides by Cationic Cyclodextrin Polyrotaxanes
- 13 C.WISCHKE (Helmholtz Geesthacht), M.Merino, T.Roch, A.Krüger, L.Lendlein
Copolymer Nanoparticles: Effects of Polymer Composition and Environmental Conditions on Endocytosis by Endothelial Cells *In Vitro*
- 14 M.SAREM (Uni Freiburg), D.Vonwil, V.P.Shastri
Quantification of Protein Adsorption Dynamics on Three Dimensional Biomaterial Interfaces
- 15 N.ARYA (Uni Freiburg), A.T.Neffe, T.Gebauer, A.Lendlein, V.P.Shastri
Evaluation of Ethyl Lysine Diisocyanate Cross-linked Gelatin-based Support Structures for Cartilage Tissue Engineering
- 16 A.T.NEFFE (Helmholtz Geesthacht), M.von Ruesten-Lange, S.Braune, K.Luetzow, T.Roch, K.Richau, F.Jung, M.Weinhart, R.Haag, A.Lendlein
Polyethers on Porous Polymer Surfaces: Relevant Models to Study Reduction of Protein Adsorption and Improvement of Hemocompatibility

THURSDAY, FEBRUARY 27TH, 2014

9:00 C.WEDER (Uni Fribourg), S.Coulibaly, D.W.R.Balkenende, S.Balog, Y.C.Simon, G.L.Fiore,
Stimuli-Responsive Metallosupramolecular Polymers

9:30 H.-W.SCHMIDT (Uni Bayreuth), K.U. Claussen, R.Giesa, E.Lintz, M.Tebbe, A.Schweikart, A.Fery, T.Scheibel
Inspired by Nature: Longitudinal Polymer Gradient Materials

10:00 INTRODUCTION OF POSTERS

- 1 D.STÖBENER (Uni Berlin), M.Dimde, B.Ziem, F.Paulus, R.Schulze, D.Steinhilber, I.Steinke, P.Welker, S.Wedepohl, K.Licha, J.Dernedde, R.Haag
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Polyethers on Porous Polymer Surfaces: Relevant Models to Study Reduction of Protein Adsorption and Improvement of Hemocompatibility
- 17 M.R.BUCHMEISER (Uni Stuttgart), J.Unold, D.Wang, W.Frey
Stereo- and Regioselective Cyclopolymerization of Chiral 1,7-Octadiynes
- 18 D.CRESPY (MPIP Mainz), M.Gallei, J.Elbert, M.Rehahn, K.Landfester, R.H.Staff
Achieving Stimuli-Selective Release of Encapsulated Payloads from Nanocontainers
- 19 P.BESENIOUS (Uni Münster), H.Frisch, R.Appel, M. von Gröning
Controlled Supramolecular Polymerization of Switchable Peptide Materials in Water
- 20 A.RUDOV (RWTH Aachen), R.Schröder, A.Schmidt, W.Richtering, A.Pich, I.Potemkin
Recent Advances in Amphoteric Core-Shell Microgels: Modeling and Experiment
- 21 A.ENZENBERG (IAP Potsdam), C.Boeffel, A.Laschewsky, M.Rohn, A.Taubert
New Fluorescent Copolymers for Recognition in Autonomous Sensor Systems
- 22 A.FAHMI (Rhein-Waal University of Applied Sciences)
Nanostructure Fabrication via Self-Assembly of Soft Hybrid Materials
- 23 S.REINELT (Uni Düsseldorf), M.Tabatabai, H.Ritter
Star-shaped Polymers based on Thiol-Ene Click Chemistry and Chain Transfer: Solubility with Respect to Sulfoxidation
- 24 T.RUDOLPH (Uni Jena), A.Nunns, S.Stumpf, I.Manners, F.H.Schacher
Hierarchical Self-Assembly of Well-defined Linear and Star-Shaped Block Copolymers Containing Poly(2-Alkyl-2-Oxazoline) Segments

11:15 COFFEE AND POSTERS

12:45 LUNCH

14:00 D.SCHLÜTER (ETH Zürich)
Synthetic 2D Polymers

14:30 X.FENG (MPIP Mainz)
Graphene Directed Synthesis of Porous Polymers and Nanohybrids

15:00 B.TIEKE (Uni Köln), I.Welterlich, H.Zhang, K.Zhang
Polymers for Electronic Applications Based on Pyrrolopyrrolidones and other High Performance Pigments

15:30 S.LUDWIGS (Uni Stuttgart), F.Fischer, K.Tremel, J.Back, D.Trefz, R.Dipietro, D.Neher, A.Kiriy, A.Karim, N.Kayunkid, M.Brinkmann
How to Force Semiconducting Polymers into Order

16:00 J.YUAN (MPI Golm)
Poly(ionic liquid)s: Innovative Polyelectrolytes and Material Application

16:15 COFFEE BREAK

17:15 B.VOIT (TU Dresden), D.Appelhans, J.Gaitzsch, X.Huang, M.Yassin
Responsive Polymersomes and Nanocapsules as Robust Carrier Systems

- 17:45 J.VENZMER (Evonik Industries AG), V.Dahl, T.Böhmer, C.Hartung, M.Klostermann, J.Kleinen, C.Mayer, A.Trambitas
Microemulsions of High Molecular weight Organomodified Siloxanes: Formulation makes the Difference
- 18:15 S.SEIFFERT (Helmholtz Berlin)
Effect and Evolution of Nanostructural Complexity in Sensitive Polymer Gels
- 18:30 A.STUDART (ETH Zürich) BASF – Staudinger Lecture
Microstructured Polymer-based Composites
- 19:15 End

19:45 MENSA DINNER

FRIDAY, FEBRUARY 28TH, 2014

- 9:00 U.SCHUBERT (Uni Jena), S.Bode, B.Sandmann, J.Kötteritzsch, N.Kuhl, M.D.Hager
Reversible Crosslinks as General Principle for Self-Healing Polymers
- 9:30 J.-F.LUTZ (Uni Strasbourg)
Sequence-Controlled Polymers: About the Importance of Chemical Diversity

10:00 INTRODUCTION OF POSTERS

- 1 J.HILF (Uni Mainz), H.Frey
Functional Polycarbonates from Carbon Dioxide (CO₂) and Tailored Epoxide Building Blocks
- 2 R.BERNIN (Uni Potsdam), A.Laschewsky, M.Päch, C.Wieland, E.Wischerhoff
A New Family of Water-Soluble Polymers from Bio-Based Components
- 3 B.RITTER (Uni Freiburg), F.Stempfle, M.Heiny, V.P.Shastri, R.Mülhaupt, S.Mecking
Bio-based long-chain Polyesters with Polyethylene Segments Derived from Plant Oil
- 4 Z.-J.WANG (MPIP Mainz), K.Landfester, K.Zhang
Π-Conjugated Microporous Polymers via High Internal Phase Emulsion (HIPE) Polymerization with Hierarchical Pore Structure and Photocatalytic Activity
- 5 M.TREß (Uni Leipzig), E.U.Mapesa, M.Reiche, F.Kremer
Glassy Dynamics of Condensed Isolated Polymer Chains
- 6 J.BRANDT (Leibniz-Institut Dresden), N.K.Guimard, C.Barner-Kowollik, F.G.Schmidt, A.Lederer
Temperature Dependent Size Exclusion Chromatography for the *in situ* Investigation of Dynamic Bonding / Debonding Reactions
- 7 B.TARTSCH (Malvern Instr. GmbH), W.S.Wong, J.C.Sanchez
Solvent Enhanced Light Scattering – Absolute Molecular Weight of Invisible Polymers
- 8 G.HE (TU Dresden), D.Pospiech, D.Jehnichen, P.Formanek, A.Janke, P.Friedel, B.Voit, C.M.Papadakis
The Effect of Gold Nanoparticle Size and Hydrophobicity on the Morphology Evolution of PPMA-b-PMMA Block Copolymer Thin Films
- 9 M.VIELHAUER (Uni Freiburg), S.Bodendorfer, C.Friedrich, G.Reiter, R.Mülhaupt, P.Lutz
Bimodal Isotactic Polystyrene and Semicrystalline POSS Hybrid Materials
- 10 E.ROEBEN (Uni Köln), S.Teusch, M.Dörfer, M.Effertz, A.M.Schmidt
Nanorheology of Polymer Solutions with Ferromagnetic Tracer Nanoparticles
- 11 J.DUFFY (Malvern), B.Tartsch, S.Carrington, P.Clarke
Using Microrheology to fully Characterize the Dynamic Spectrum and Viscoelastic Properties of Natural and Synthetic Macromolecules in Solution
- 12 J.HEIGL (Uni Bayreuth), F.Richter, H.-W. Schmidt
Nucleation and Clarification of Polyamides
- 13 C.BARNER-KOWOLLIK (KIT Karlsruhe), L.Barner, T.Hofe, A.P.Vogt, M.Kaupp, U.Geckle, A.M.Greiner, A.F.Hirschbiel, M.H.Stenzel, T.Tischler, V.Trouillet, A.Welle
Advanced Microsphere Design via Thermal and Light Triggered Ligation Chemistries
- 14 T.LÖBLING (Uni Bayreuth), A.H.Gröschel, A.Walther, F.H.Schacher, H.Schmalz, A.H.E.Müller
Directed Co-Assembly of Soft Compartmentalized Nanoparticles
- 15 S.STARKE (Leibniz-Institut Dresden), O.Fischer, D.Pospiech, A.Kowitz, C.Harnisch, L.Häußler, Y.Bykov, M.Ciesielski, M.Döring, T.Köppl, V.Altstädt, S.Brehme, B.Schartel
Phosphorus-Containing Polyesters as Highly Effective Flame Retardant Additives in PBT Blends
- 16 E.WU (Chemspeed Technologies)
High-Troughput Investigations on the Nitroxide Mediated Polymerization Conditions
- 17 F.FÜRSTENBERG (Uni Freiburg), A.Blumen, A.A.Gurtovenko, M.Dolgušev
Simulations of Hyperbranched PAMAM Polymers
- 18 Z.FAN (Uni Bayreuth), A.Greiner
Tailor-made Bags for Precious Metal Nanoparticles
- 19 B.ZHANG (Uni Freiburg), R.Mülhaupt, M.C.Baier, S.Mecking, G.Reiter
Archeology of Solution Grown Polymer Single Crystals
- 20 M.R.LICHTENTHALER (Uni Freiburg), A.Higelin, R.Mangan, A.Steffani, D.A.Plattner, I.Krossing
From Fundamental to Applied Gallium(I) Chemistry: Synthesis of Highly Reactive Polyisobutylene
- 21 S.DÜNKI (EMPA/EPFL), M.Alexandru, A.Bele, M.Cazacu, F.Nüesch, D.Opris, C.Racles
Influence of Polar Groups on the Dielectric Constant of Silicones
- 22 U.HANDGE (HZG Geesthacht), V.Abetz
Mechanically Induced Ageing of Porous Polymer Membranes

11:30 COFFEE AND POSTERS

- 14:00 K.SAALWÄCHTER (Uni Halle), M.Ott, P.Aparicio, P.Sotta, M.-L. Trutschel, W.Chassé, S.Schlögl, G.Riess, A.Mujtaba, M.Beiner, T. Thurn-Albrecht
Mechanical Properties of Pure- and Particle-Filled Elastomers: Microscopic Insights by NMR Spectroscopy
- 14:30 H.WEISS (BASF, Ludwigshafen)
Driving Innovation for Advanced Materials & Systems: Modeling and Simulation across all Length Scales
- 15:00 A.HARTWIG (IFAM Fraunhofer Bremen), H.Lützen, A.Arnebold, A.Straßburg, K.Koscheck
Crystallinity as New Concept to Tune Morphology and Properties of Thermosetting Polymers
- 15:30 W.BINDER (Uni Halle), M.Schulz, O.Adekunle, J.Kressler
Lateral Phase Separation in Mixed Lipid-/Polymermembranes
- 16:00 F.PLAMPER (RWTH Aachen), D.Pergushov, O.Borisov, O.Mergel, A.Gelissen, A.Steinschulte, A.Jung
Exploring and Utilizing Electrostatic Interactions
- 16:15 COFFEE BREAK**
- 17:15 P.THEATO (Uni Hamburg), R.Kakuchi, F.Moldenhauer
New Developments in Post-Polymerization Modifications
- 17:45 F.RICHTER (Bayer MaterialScience)
Polyisocyanate – Chemistry between Monomer and Macromolecule
- 18:15 J.RÜHE (Uni Freiburg)
Tailormade Polymer Monolayers and Networks for Microsystems and Engineered Biointerfaces
- 18:45 Poster Awards (Donated by Wiley VCH)**
- 18:50 Closing Remarks Reiter**

Registration is open from November 12nd, 2013 until February 10th, 2014 on <http://portal.uni-freiburg.de/makro-chemie/kolloquium>

A later registration is possible at the conference desk for an additional fee.

Hotel reservation can be made by HolidayInsider AG until January 23rd, <http://portal.uni-freiburg.de/makro-chemie/kolloquium/hotelbuchung>

Regular registration fee until January 31st: 250,- €, from February 1st onwards: 270,- €.

Reduced registration fee for students until January 31st: 50,- €, from February 1st onwards: 70,- €.

HVI-Sponsored Session on Bioengineering and Multifunctional Biomaterials (only on Wednesday) until January 31st: 150,- €, from February 1st onwards: 170,- €

Included are the Conference Dinner on Thursday, refreshments during the coffee breaks, and the Conference issue of Macromolecular Journals containing the abstracts.

Guests are welcome at the Dinner. Tickets may be obtained for 50,- € at the conference desk.

Please make payment of your registration fee into the account of:

Förderungsgemeinschaft des Instituts für Makromolekulare Chemie, Konto Nr. 242 636, BLZ 680 700 24, Deutsche Bank AG, Freiburg

BIC: DEUTDE33HAN, IBAN: DE65 6807 0024 0024 2636 00

Cancellations with full refund of the conference fee are only accepted before February 10th, 2014.

The conference desk opens at 12 a.m. on Wednesday. Telephone: +49 (0)761 203 4473

The conference pack can be collected at the conference desk.

THE NEXT FREIBURG MAKROMOLEKULARES KOLLOQUIUM WILL TAKE PLACE ON FEBRUARY 25th – FEBRUARY 27st, 2015

