
Program

Sunday, 3 July 2005

18.00-21.00 **Registration and welcome buffet**

Monday, 4 July 2005

8.00-9.00 **Registration**

9.00-9.10 **Opening remarks: Franz Stelzer**

Chairperson: Reinhold W. Lang

9.10-9.50 **Oskar Nuyken (Plenary Lecture)**
Modern Trends in Organic Light Emitting Devices (OLEDs)

9.50-10.10 **Katharina Resch**
Optical Properties of highly transparent Polypropylene Cast Films: Influence of Material Structure, Additives and Processing Conditions

10.10-10.30 **Markus Wolfahrt**
Influence of the curing degree on substantial material properties of an epoxy resin matrix material

10.30-10.50 **Christian Wolf**
Stabilisation of Ultra-High Molecular Weight Polyethylene (UHMW-PE) for endoprostheses with α - Tocopherol (vitamin E)

10.50-11.20 **Coffee break**

Chairperson: Alois Schausberger

11.20-11.40 **Gernot Oreski**
Structure-infrared optical property-correlations of C,O,H-polymers for transparent insulation and greenhouse applications

11.40-12.00 **Istvan Gódor**
Characterization of the microstructure related tribological behaviour of TPU seals

12.00-12.20 **Krisztina-Andrea Vincze-Minya**
Influence of the molecular structure on the viscoelastic behavior of polymer blends (PP-EPR)

12.20-12.40 **Gerald R. Berger**
Characterisation of surface reproduction in injection moulding process.
Variation of tool steel, surface shaping, coating, polymer and processing parameters

12.40-14.10 **Lunch**

Chairperson: Robert Saf

14.10-14.50 **Volker Altstädt (Plenary Lecture)**
New Substrates for Electronic Printed Circuit Boards

14.50-15.50 **Poster Presentation I**

15.50-16.20 **Coffee break**

Chairperson: Robert Saf

16.20-16.40 **Walter Friesenbichler**
Polymer Melt Rheology at High Shear Rates using an Injection Moulding Machine and a new Micro-Rheology Technique

16.40-17.00 **Wolfgang Kern**
Photochemical modification and structuring of polymer surfaces

17.00-17.40 **Poster Presentation II**

17.40-19.00 **Poster Session and award ceremony (best poster)**

Tuesday, 5 July 2005

Chairperson: Renate Dworzak

8.30-9.10 **Volker Ribitsch (Plenary Lecture)**
Characterization of oriented polymers surface properties

9.10-9.30 **Jörg Saßmannshausen**
Polymers for (Opto)electronic Applications

9.30-9.50 **Heinz Dragaun**
Determination of slow crack growth with media-tensile creep tests: influence parameters and comparability

9.50-10.10 **Christoph Guster**
Fatigue analyses of polymer-components for applications in engine compartment

10.10-10.40 **Coffee break**

Chairperson: Wolfgang Binder

10.40-11.00 **Akira Hirao**
Living Anionic Polymerization of 4-(α -Alkylethenyl)styrene Derivatives

11.00-11.20 **Takashi Ishizone**
Ring-Opening Polymerization of 1,3-Dehydroadamantanes

11.20-11.40 **Mária Omastová**
Surface Properties and Conductivity of Polypyrrole Prepared in the Presence of Anionic Surfactant

11.40-12.00 **Josef Brenner**
Tribological Behaviour of P84 Polyimides and its Compounds in Vacuum and Gaseous Environments.

12.00-13.30 **Lunch**

Chairperson: Simone Knaus

13.30-14.10 **Herbert Sixta (Plenary Lecture)**
Prediction of Changes of Molecular Weight Distribution during Degradation of Cellulose Substrates

14.10-14.30 **Andreas Haider**
Extrudable Wood-Melamine Resin-Composites

14.30-14.50 **Renate Dworzak**
Fatty acid derivatives of polysaccharides

14.50-15.10 **Gisbert Riess**
Novel urea-siloxane copolymers as gelling agent for cosmetic applications

15.10-15.30 **Dennis Marroni**
Acrylamide: Potential for exposure through foodstuffs and food-contact paper and board

15.30-16.00 **Coffee break**

Chairperson: Wolfgang Kern

16.00-16.20 **Daniel Sandholzer**

Life Cycle Assessment of Polyhydroxyalkanoates from Whey

16.20-16.40 **Peter Preishuber-Pflügl**

Epoxides plus carbon monoxide – a new route to biodegradable polyesters

16.40-17.00 **Thomas Verdianz**

Novel Hydrophilic Polymer Supports: Functionalized Microadsorbents for Extracorporeal Blood Detoxification

17.00-17.20 **Robert Liska**

Photopolymers for Rapid Prototyping of cellular Biomaterials

17.20-17.40 **Sigrid Jauk**

New Concepts for Type II Photoinitiators

19.30 **Conference Dinner: Hotel Erzherzog Johann** (Sackstraße 3-5, A-8010 Graz)

Wednesday, 6 July 2005

Chairperson: Volker Ribitsch

8.30-9.10 **Ferdinand Hofer (Plenary Lecture)**

Advances in Electron Microscopy of Polymers and Organic Functional Materials

9.10-9.30 **Peter Wilhelm**

A Picture Tells more than 4096 Spectra about your Polymer (Spectral Imaging Pushing the Limits)

9.30-9.50 **Thomas E. Hamedinger**

Processing of functional polymers to ultrathin structured films by Atmospheric-Pressure Ion Deposition

9.50-10.10 **Stefan Köstler**

Formation and Applications of Layer-by-Layer Polyelectrolyte Coatings

10.10-10.30 **Wolfgang H. Binder**

Assembly of Polymeric Building Blocks into Nanoscaled Structures

10.30-11.00 **Coffee break**

Chairperson: Bernd Trathnigg

11.00-11.20 **Kenji Sugiyama**
Synthesis of Block and Star-branched Polymers Consisting of Polyacetylene Segments *via* Ionic Interaction

11.20-11.40 **Katarzyna Derwinska**
3-Dimensional polyurethane-based hydrogels for microarrays

11.40-12.00 **Martin Reischl**
Surface Characterisation of Polymers: zeta-Potential

12.00-12.20 **Doris Machl**
Scratch Behavior of Polypropylene based Material

12.20-12.40 **Sigrid Lüftl**
Effects of the additive package on the thermal properties of a commercial Polyoxymethylene (POM) homopolymer

12.40-13.10 **Coffee break**

Chairperson: Heinrich Gruber

13.10-13.30 **Frank Höfler**
Accelerated Solvent Extraction (ASE) - A fast and automated Technique with low Solvent Consumption for the Extraction of Additives from Polymer Samples

13.30-13.50 **Gerhard Heinzmann**
GPC/SEC with Triple Detection and Batch Dynamic Light Scattering: A Powerful Combination for the Characterization of Complex Macromolecules

13.50-14.10 **Bernd Trathnigg**
Molecular characterization of amphiphilic polymers by different modes of liquid chromatography

14.10-14.30 **Alexander Karbach**
New Solid State Analytics

14.30-15.10 **Michael R. Buchmeiser (Plenary Lecture)**
Surface Modification of Polymers

15.10-15.20 **Closing remarks: Franz Stelzer**

Posters

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| P1 | Ronald Zirbs | Self-Assembly of Au-Nanoparticles onto Surfaces Mediated by Multiple Hydrogen Bonds |
| P2 | Robert Sachsenhofer | Synthesis of functionalized phosphine oxide Cadmium Selenide nanoparticles and assembly onto surfaces by multiple hydrogen bonds |
| P3 | Miroslava Mravčáková | Structure and Conductivity of Polypropylene/ Montmorillonite/Polypyrrole Nanocomposites |
| P4 | Boštjan Denac | Polypropylene / calcium carbonate micro- and Nanocomposites |
| P5 | Matjaž Denac | Encapsulation Phenomenon in PP Hybrid Composites |
| P6 | Irina Pucić | Radiation Modified (PEO) ₈ ZnCl ₂ Polyelectrolytes and Nanocomposites |
| P7 | Irina Pucić | Postirradiation Crosslinking And Structure Of Unsaturated Polyester Resin |
| P8 | Robert Inführ | 3D Lithography of organo-soluble mold materials |
| P9 | Alexandra Lex | Synthesis and characterization of new photosensitive polynorbornenes and polyacrylates |
| P10 | Monika Schuster | Acrylamide-based Biophotopolymers for Bone Tissue Engineering |
| P11 | Stefan Kopeinig | Benzophenone as covalently bound sensitizer for α -cleavable Photoinitiators |
| P12 | Robert Liska | New insights into the photochemistry of cross-conjugated photoinitiators |
| P13 | Christian Buchgraber | Trialkylsilanes as reagents for the photochemical patterning of organic light emitting devices |
| P14 | Sonja Pichler | Si-based photochromic organic compounds and optical patterning |
| P15 | Susanne Temmel | Photochemically modified polyethylene and antimicrobial polyethylene compounds: characterization by zeta potential measurements |

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| P16 | Christian Kluger | Synthesis of Side Chain Functionalized Block-co-Polymers by Combining Ring Opening Metathesis Polymerization (ROMP) with 1,3-Dipolar Cycloaddition Reactions |
| P17 | Monika Hadrbolec | Ring Opening Metathesis Polymerization of Norbornene-Ester Derivatives Towards Low Shrinkage Composites |
| P18 | Kurt Stubenrauch | Well defined amphiphilic block copolymers via ROMP |
| P19 | Daniel Burtscher | Characterization of Latent ROMP Initiators by Means of Differential Scanning Calorimetry |
| P20 | Stefan Kappaun | $\text{Pd}(\text{OAc})_2(\text{NHCy}_2)_2$ as the Catalyst for Suzuki Type Polyfluorene Synthesis |
| P21 | Ali Erdogmus | Preparation of Crown Ether Based Initiator for ATRP |
| P22 | Sonja Petrak | Reaction Pathways of Blocked Isocyanates in UF-Resins: Influence of Metal-Catalysis on Reactivity |
| P23 | Laura Petraru | Synthesis and characterization of azide / alkyne – functionalized oligomeric silsesquioxanes |
| P24 | Dominique Farnik | Novel carbohydrate based surfactants for the preparation of imprinted silica |
| P25 | Peter Krajnc | Arylacrylates as versatile precursors for reactive polymer supports |
| P26 | Juraj Pavlinec | Solution and Bulk Polymerization of Substituted Acryl Amides |
| P27 | Bahire Filiz Senkal | Ureasulfonamide Polymer for Selective Mercury Extraction |
| P28 | Ayfer Sarac | Inverse Emulsion Polymerization of Acrylamide in the Presence of Different Emulsifiers |
| P29 | Selin Coskun | A Study of Some Equation of State Parameters of Methylhydrosiloxane Dimethyl Siloxane Copolymer with Some Acetates |
| P30 | Atsushi Narumi | Synthesis of Polystyrene Microgel with Maltohexaose toward Fullerene-Coating on Polar Surface |

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| P31 | Harumi Kaga | Depolymerization of Glucans through Microwave-assisted Heating |
| P32 | Irmgard Bergmann | Investigations on the Crosslinking Reactions of Melamine Resins in the Presence of Wood |
| P33 | Yakup Arica | Chitosan-coated poly(hydroxyethylmethacrylate-co-glycidyl methacrylate), p(HEMA-GMA). membranes for reversible enzyme immobilization |
| P34 | Emine Yalcin | Preparation of immobilised metal affinity support from methacryloylamido- histidine and methylmethacrylate, p(HEMA-co-MAAH), membranes |
| P35 | Gülay Bayramoglu | IgG adsorption capacity of spacer-arm and L-arginine ligand attached p(MMA-GMA) beads |
| P36 | Igor Novák | Adhesion and surface energy of polyethylene terephthalate modified by cold plasma |
| P37 | Igor Novák | Surface energy and adhesive properties of polyamide 12 modified by barrier and RF-discharge plasma |
| P38 | Štěpán Florián | Study of pressure-sensitive adhesives containing special fillers |
| P39 | Feyza Karasu | The Investigation of Phenoxyacetic Acid Derivatives and their Role in UV-Curing |
| P40 | Irina Pucić | PIXE Spectroscopy for Determination of Vapor Phase Corrosion Inhibitor Concentration |
| P41 | Boril Chernev | Vibrational Spectroscopy and Spectral Imaging Techniques – Special Applications in the Polymer Science |
| P42 | Dolunay Sakar | Studies of Thermodynamic Parameters and Linear Polymer Dimensions of Poly(p-chlorostyrene) in Diethylene Glycol Monobutyl Ether by Intrinsic Viscosity Measurements |
| P43 | Merih Serin | Electrical Properties of Poly(2,6-dimethyl-1,4-phenylene oxide) Films with Different Type of Dopants |
| P44 | Merih Serin | Doping Ratio Effect on Electrical Properties of Poly(2,6 dimethyl-1,4-phenylene oxide) Films |

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| P45 | Günter Reinhold | The influence of the stationary phase polarity on GPC/SEC separations |
| P46 | Andrzej Sikorski | Folding Behavior of Polypeptides. A Monte Carlo Study of Simplified Models |
| P47 | Piotr Romiszowski | A Collapse Transition of Polymer Chains in a Confined Space |
| P48 | Jörg Saßmannshausen | A DFT Studie of CpCp(XH ₂ Ph)ZrCl Cations (X = C, Si) |
| P49 | Larisa Karpenko | Characterization of polymer bi layer membranes using chronopotentiometry |