Conference Programme

Opening Ceremony

Wednesday, Sep 8th, 10:15 Lecture Hall A

Wolfgang Kern (Institute of Chemistry of Polymeric Materials, University of Leoben)
Magnifizenz Wolfhard Wegscheider (Rector of the University of Leoben)
Majda Žigon (National Institute of Chemistry, Ljubljana)
Leopold Katzmayer (President of the Austrian Association of Plastics Processors VÖK)

Plenary Lecture

Wednesday, Sep 8th, 11:00 Lecture Hall A

Chairman: Walter Friesenbichler

L-1 *Advances in Polymer Processing: A Modeling and Simulation Point of View*
Evan Mitsoulis

Lunch 12:00-14:00

Polymer Processing 1

Wednesday, Sep 8th, 14:00 Lecture Hall A

Chairman: Clemens Holzer

L-2 *Micro- and Nano-Injection Molding for Bioanalytical Applications (Invited Lecture)*
P. Urwyler, V. Di Chiara, P. M. Kristiansen, Ch. Rytka, J. Gobrecht*

L-3 *Virtual determination of a process window for injection moulding*
Thomas Lucyshyn*, Christian Kukla, Michael Kipperer, Clemens Holzer

L-4 *Electron induced reactive processing of polymers, their blends and composites*
U. Gohs*, M. Auf der Landwehr, R. Bold, A. Leuteritz, K. Naskar, S. Rooj, V. Thakur, S. Volke, S. Wießner, U. Wagenknecht, G. Heinrich

L-5 *From Material Screening to Pilot Production*
Franz Grajewski

Polymers for Electronics and Optics

Wednesday, Sep 8th, 14:00 Lecture Hall B

Chairman: Robert Liska

L-6 *Interfacing Conducting Polymers with Biology (Invited Lecture)*
George Malliaras

L-7 *Reversible Photoreactions in Polynorbornenes bearing Spiropyran Side Groups and their Application in Organic-Thin-Film Transistors*
Lucas Hauser*, Stefan Kirnstötter, Marco Marchl, Egbert Zojer, Alexander Fian, Thomas Griesser, Wolfgang Kern and Gregor Trimmel

L-8 *Modeling of the charge carrier transport in disordered polymer materials*
Petr Toman*, Miroslav Menšík, Wojciech Bartkowiak

L-9 *Polymer-composites and polymers as beam splitters for neutrons*
M. Fally*, J. Klepp, C. Pruner, M. Bichler, I. Drevenšek Olenik, Y. Tomita, J. Kohlbrecher, H. Eckerlebe

Bio-Polymers

Wednesday, Sep 8th, 14:00 Lecture Hall C

Chairman: Franz Stelzer

L-10 *Bio-Polyesters - Current Status and Future Perspectives (Invited Lecture)*
Gerhart Braunegg*and Martin Koller

L-11 *Finishing of Polymer Coatings: Cross-linking of scl-Poly(hydroxyalkanoates)s with Bisazide*
Clemens Ebner*, Elisabeth Rossegger, Barbara Rupp, Franz Stelzer, Frank Wiesbrock

L-12 *Synthesis and Characterization of Biobased Resins from Natural Oils*
Arunjunai raj Mahendran*, Nicolai Aust, Günter Wuzella, Andreas Kandelbauer

L-13 *Modification of Melamine Formaldehyde resins by substances from biorenewable resources*
Martin Kohlmayr*, Gerhard Zuckerstätter, Andreas Kandelbauer

Coffee Break 15:30–16:00

Polymer Processing 2

Wednesday, Sep 8th, 16:00 Lecture Hall A

Chairman: Walter Friesenbichler

L-14 *Effect of the mixture composition on shear and extensional rheology of polyethylenterephthalate and acrylonitrilbutadienstyren nanocomposites*
Milan Kracalik*, Stephan Laske, Clemens Holzer

L-15 *Analytical and Numerical Methods for the Design of Maddock Mixers in Single Screw Plasticizing Technology*
Michael Olbrich*, Gernot Zitzenbacher, Christoph Hochenauer, Vincent Lawlor

L-16 *Three dimensional modelling of flow in the pressure build-up zone of the new conical co-rotating twin screw extruder*
Ramesh Kumar Selvasankar*, Stephan Schuschnigg

L-17 *Determination of Twin Screw Extruder Operational Conditions for PP/EPDM/PA6 Ternary Polymer Blends*
Shirin Shokoohi, Ahmad Arefazar*, Ghasem Naderi

Polymer Photochemistry

Wednesday, Sep 8th, 16:00 Lecture Hall B

Chairman: Wolfgang Kern

L-18 *3D Photopolymerization (Invited Lecture)*
Robert Liska

L-19 *Two photon patterning of Optical Waveguides in Silicon Based Flexible Polymers*
Rachel Woods*, Gregor Langer , Valentin Satzinger , Wolfgang Kern

L-20 *Acylgermanium Photoinitiators in Visible Light Photopolymerisation of Dental Materials*
Astrid Gugg*, Beate Ganster, Christian Hametner, Robert Saf, Norbert Moszner, Dmytro Neshchadin, Markus Griesser, Georg Gescheidt, and Robert Liska

L-21 *Photolithographic Micro-patterning of Polymers for Optical Applications*
T. Köpplmayr*, T. Griesser, M. Cardinale, T. Rath, G. Jakopic, G. Trimmel, and W. Kern

Antimicrobial Polymers and Polymers for Pharmaceutical Applications
Wednesday, Sep 8th, 16:00 Lecture Hall C
Chairman: Gerd Braunegg

L-22 *Versatile Strategies Towards Long-term Active Antimicrobial Polymers*
Nadja Noormofidi*, Elisabeth Kreutzwiesner, Julia Kienberger, Julia Langer, Christian Slugovc

L-23 *Tailor-made Hydro-, Lipo-, and Amphigels from the Microwave-Assisted Polymerization and Crosslinking of Poly(2-oxazoline)s*
Frank Wiesbrock*, Angela Hecke, Bianca Wirnsberger, Andrew M. Kelly, Franz Stelzer

L-24 *Well-defined, multi-functional and biodegradable polyphosphazenes as macromolecular carriers for the tumor-targeted delivery of anti-cancer drugs*
I. Teasdale*, S. Wilfert, I. Nischang, O. Brüggemann

Poster Session
Wednesday Sep 8th, 17:30 Poster Area

Plenary Lecture
Thursday, Sep 9th, 9:00 Lecture Hall A
Chairman: Christian Slugovc

L-25 *Designing Synthetic Macromolecules with Strong Similarities to Biology*
Gregory N. Tew

Coffee Break 10:00–10:30

Synthetic Macromolecular Chemistry 1
Thursday, Sep 9th, 10:30 Lecture Hall A
Chairman: Peter Krajnc

L-26 *Stimuli Responsive Polymers: From Synthesis to Application in Sensors.*
Christian Slugovc*

L-27 *Synthesis of degradable poly(N-(2-hydroxypropyl) methacrylamide) (PHPMA) nanogels by reversible addition-fragmentation chain transfer (RAFT) polymerization in inverse emulsions.*
Harald Wutzel*, Felix Richter, Yuanchao Li, Sergei Sheiko, Harm-Anton Klok

L-28 *Z-RAFT Star Polymerization under Different Solvent Conditions: A Computer Simulation Study*
Markus G. Fröhlich*, Michael M. Nardai and Gerhard Zifferer

L-29 *4-(N-methylamino) pyridine immobilised on hypercrosslinked polymer for use in heterogeneous catalysis*
Irena Pulko*, Peter Krajnc, Neil R. Cameron

Polymer Surfaces and Interfaces 1
Thursday, Sep 9th, 10:30 Lecture Hall B
Chairwoman: Sabine Hild

L-30 *Functionalization of polyolefin surfaces and grafting of molecules with complex architecture (Invited Lecture)*
J. Friedrich*, S. Wettmarshausen

L-31 *Fluorescence Labeling of Microspheres and Surface Modified Polymers*
Patrick Knaack*and Simone Knaus

L-32 *Formation of layers of inorganic particles on surfaces of activated regenerated cellulose fibres*
Silvo Hribernik*, Majda Sfiligoj Smole, Karin Stana Kleinschek

L-33 *Modulation of the Chemical and Physical Properties of Thin Polymer Films via UV-light*
T. Griesser*, M. Edler, T. Köpplmayr, N. Muhr, W. Kern, G. Trimmel, Q. Shen, C. Teichert, H.-G. Flesch, M. Marchl, E. Zojer, R. Resel, G. Hernandéz Sosa, C. Simbrunner, H. Sitter, A. M. Track, G. Koller, M. G. Ramsey

Composites and Nanocomposites 1
Thursday, Sep 9th, 10:30 Lecture Hall C
Chairman: Ben Alcock

L-34 *The use of polymer templates in preparation of polymer / ZnO hybrid materials and ZnO nanoparticles (Invited Lecture)*
Gabriela Ambrožič, Srečo D. Škapin, Zorica Crnjak Orel, and Majda Žigon*

L-35 *Polyethersulphone/PTFE Nanocomposites: Preparation and Thermomechanical Characterization*
Michele Laus*, Katia Sparnacci, Diego Antonioli, Simone Deregibus, Rosita Passeri, Giampaolo Zuccheri, Tiziana Poggio, and Valerj Kapeliouchko

L-36 *Green one pot synthesis of silver nanoparticles*
Doris Breitwieser*, Martin Reischl, Volker Ribitsch

L-37 *Determination of x-ray elastic constants and their applications to characterize microstresses in polypropylene nanocomposites*
Michael Feuchter*, Günther Maier, Gerald Pinter, Milan Kracalik, Stephan Laske

Lunch 12:00-14:00

Synthetic Macromolecular Chemistry 2
Thursday, Sep 9th, 14:00 Lecture Hall A
Chairman: Christian Slugovc

L-38 *Emulsion templating for porous polymers preparation: possibilities and perspectives*
Peter Krajnc

L-39 *Synthesis, characterization and use of diethanolamine based polyesters and polyester hydrochlorides*
Miroslav Huskić*, Gorazd Šebenik, Majda Žigon

L-40 *Molecular modelling with semi empirical methods of cellotriose with different organofunctional silanes*
Heike M. A. Ehmann*, Karin Stana-Kleinschek, Volker Ribitsch

Polymer Surfaces and Interfaces 2
Thursday, Sep 9th, 14:00 Lecture Hall B
Chairman: Joerg Friedrich

L-41 *Carbohydrate-Based Polymer Supports: Synthesis and Functionalization*
Markus Adelwöhrer*, Simone Knaus, Heinrich Gruber

L-42 *Oxidation of viscose fibers mediated by non persistent nitroxyl radicals*
Sergiu Coseri*, Gabriela Biliuta, Lidija Fras, Valeria Harabagiu

L-43 *Novel methodologies for the measurement of perceptual surface properties*
Dieter P. Gruber*, Walter Friesenbichler

L-44 *Atomic Force Microscopy as metrology tool for identification of phases in two- or multi-component polymer systems*
Andreas Weber*, Katharina Resch

Composites and Nanocomposites 2
Thursday, Sep 9th, 14:00 Lecture Hall C
Chairwoman: Majda Žigon

L-45 *Single Polymer Composites: An Overview of Composite Production Concepts and Fabrication Techniques (Invited Lecture)*
Ben Alcock*, Ton Peijs

L-46 *Development of wood plastic composites for injection moulding applications*
Christoph Burgstaller*, Wolfgang Stadlbauer

L-47 *Process simulation enables the optimized processing of continuous fiber reinforced thermoplastic composite materials*
Muhammad Amir Khan and Ralf Schledjewski*

L-48 *Thermal and mechanical properties of biodegradable polyolefin-chlorella compounds*
Markus Piontek*, Stephan Laske, Gisbert Rieß, Michael Feuchter, Clemens Holzer

Coffee Break 15:30–16:00

Biocompatible Polymers
Thursday, Sep 9th, 16:00 Lecture Hall A
Chairman: Frank Wiesbrock

L-49 *Biocompatible phosphorus-containing Polymers for Radical Photopolymerization*
Claudia Dworak*, Thomas Koch, Franz Varga, Robert Liska

L-50 *Chemical and morphological parameters in crosslinked PE-UHMW: influence of manufacturing and in vivo use on hip implants*
R. Markut-Kohl*, C. Schoberleitner, V.-M. Archodoulaki, S. Seidler, G. Reinisch, A. Kolb

L-51 *Polysaccharide-Silane hybrid materials – challenges and applications*
Stefan Spirk*, Heike Ehmann, Rupert Kargl, Volker Ribitsch

Elastomers (Session dedicated to Prof. Klaus Hummel on occasion of his 80th birthday)
Thursday, Sep 9th, 16:00 Lecture Hall B
Chairman: Armin Holzner

L-52 *Physico-chemical Investigations on the Mechanism of Steel Tire Cord - Rubber Adhesion (Invited Lecture)*
Guy Buytaert*, Patricia Reis

L-53 *Making of low allergenic surgical gloves from natural rubber latex via UV techniques*
Sandra Schlögl*, Raimund Schaller , Armin Holzner , Wolfgang Kern

L-54 *Lifetime prediction - A unification of the fracture mechanics and the Wöhler concept*
Stefan Robin*, Thomas Alshuth

L-55 *Process induced micro structure evolution in polyester polyurethane and visco elastic properties relationship*
Achim Frick*, Marzena Mikoszek

Conference Dinner 20:00

Plenary Lecture
Friday, Sep 10th, 9:00 Lecture Hall A
Chairman: Gerald Pinter

L-56 *Toughness and Lifetime of Engineering Polymers in Structural Applications*
Alexander Chudnovsky

Coffee Break 10:00–10:30

Polymer Mechanics 1
Friday, Sep 10th, 10:30 Lecture Hall A
Chairman: A. Chudnovsky

L-57 *Simulation of the long term behavior of plastic components*
Markus Stommel, Tobias Naumann*

L-58 *Fracture mechanics lifetime assessment of PE 80 and PE 100 pipes in consideration of complex loading conditions*
Andreas Frank*, Gerald Pinter

L-59 *Numerical modeling of the HDPE pressure pipes failure*
Pavel Hutař*, Martin Ševčík, Luboš Náhlík, Gerald Pinter, Andreas Frank, Ivaylo Mitev

L-60 *Inhomogeneities of Semicrystalline Thermoplastics in Structure Simulations*
Markus Stommel, Jan-Martin Kaiser*

Advances in Polymer Characterization 1
Friday, Sep 10th, 10:30 Lecture Hall B
Chairman: Nicolai Aust

L-61 *Characterization of Polyolefins: Influence of Molecular Structure on Product Performance (Invited Lecture)*
Barbara Gall*, Iakovos Vittorias, Volker Dolle, Dieter Lilge

L-62 *Characterization of complex polymer-systems by Field-Flow-Fractionation*
Tino Otte*, Thorsten Klein, Evelin Moldenhauer

L-63 *Molecular Weight and Structure Determination of complex Biopolymers using GPC/SEC with Tetra Detection*
Gerhard Heinzmann

L-64 *Characterisation of Polysorbate 60 by combined HPLC and MALDI-TOF-MS*
Shazia Abrar*, Bernd Trathnigg

Lunch Buffet 12:00-13:00

Polymer Mechanics 2

Friday, Sep 10th, 13:00 Lecture Hall A

Chairman: Gerald Pinter

L-65 *Correlation between stress based and fracture mechanics fatigue approach to characterize the fatigue behavior of short fiber reinforced polyamide*
A. Mösenbacher*, Ch. Guster , G. Pinter , W. Eichlseder

L-66 *Numerical simulation of crack growth with the cohesive zone model: Investigations for steel, polyethylene and polyethylene composites*
Marian Janko*, Otmar Kolednik, Gerald Pinter, Werner Ecker

L-67 *Nematic fluctuations and semisoft elasticity in liquid crystal elastomers*
Andrej Petelin*, Martin Čopič

Advances in Polymer Characterization 2

Friday, Sep 10th, 13:00 Lecture Hall B

Chairwoman: Barbara Gall

L-68 *Characterisation of thin organic coatings with specular IR reflection absorption spectroscopy*
Georg Mayr*, Sabine Hild , Michaela Schatzl

L-69 *In-situ Investigation of Polymer Crystallization with Polarization-Sensitive Optical Coherence Tomography (PS-OCT)*
Peter Hierzenberger*, Gerhard Eder, Elisabeth Leiss-Holzinger, David Stifter

L-70 *Micro-Structure of Polypropylene Fibres and Non-Woven Materials*
G. Colombe*, D.A. Ivanov

L-71 *Local thermal analysis of polymers on the sub-µm scale*
Thomas J. Fischinger*, Sabine Hild and Martin Laher

Poster Contributions

Polymer Processing

P-1 *Device for determining residence time distributions in extrusion processes*
Michael Silberhorn*, Wolfgang Reinberger, Wolfgang Kern, Artur Fertschej

P-2 *Investigations of Adhesion on Two-shot Moulded Parts*
Thomas Kisslinger, Thomas Lucyshyn, Manuel Doler, Günter R. Langecker and Clemens Holzer

P-3 *The abrasive wear of plastic mould steels as a function of steel hardness*
László Oláh*, Walter Friesenbichler, Silvia Zinner

P-4 *Simulation of the Heating of Sheets using IR-Radiation*
Artur Fertschej*, Günter R. Langecker, Clemens Holzer

P-5 *Influence of molecular structure of LLDPE on rheological properties*
Sara Shahidi Anvar*, Naghmeh Fazeli, Milad Mehranpour

Biopolymers & Polymers in Biological / Medical Applications

P-6 *Antimicrobial behavior of post-modified polyisoprene*
Julia Kienberger, Elisabeth Kreutzwiesner, Nadja Noormofidi, Christian Slugovc

P-7 *Biotechnological Modification of Industrial Lignosulfonates*
Melina Riegler*, Ewald Srebotnik, Simone Knaus

P-8 *Proton conducting biomimetic membranes based on sulfonic polymeres*
Michael Kellner*, Philip Radovanovic, Jovan Matovic, Robert Liska

P-9 *Comparative ecological assessment of a sheet of paper based on the biopolymer PLA and on normal pulp*
Matthias Katschnig*, Stephan Laske, Clemens Holzer

P-10 *Viscoelastic Properties of Poly(lactide acid)/Wood Flour Composites*
Adriana Gregorova*, Rupert Wimmer, Franz Stelzer

P-11 *Influence of the Crosslinking Degree in scl-Poly(hydroxyalkanoate) Films on the Surface Structures*
Elisabeth Rossegger*, Clemens Ebner, Franz Stelzer, Frank Wiesbrock

P-12 *Semi empirical and ab initio calculations of cellobiose with different functional silanes*
Heike M.A. Ehmann*, Stefan Spirk, Karin Stana-Kleinschek, Volker Ribitsch

P-13 *Detection of the moisture content of wood and cellulose fibre reinforced polypropylene with the Karl-Fischer-titration*
B. Priller, C. Burgstaller*, W. Stadlbauer

P-14 *New Potential Antimicrobial Compounds*
Verena Kaltenhauser*, Elisabeth Kreutzwiesner, Christian Slugovc, Franz Stelzer and Frank Wiesbrock

Polymer Mechanics and Polymer Characterization

P-15 *Influence of molecular structure on the extensional behaviour of polyethylene melts*
Ivica Duretek*, Florian Mostegel, Clemens Holzer

P-16 *Advanced Characterization of Polymers using different FFF-Techniques*
Tino Otte*, Thorsten Klein, Evelin Moldenhauer

P-17 *Morphology Characterization of Particle Filled Polymers by Tomographic Methods*
Thomas Koch*, Andreas Steiger-Tiersfeld, Armin Zankel, Dietmar Salaberger, Sabine Seidler

P-18 *Investigation on the Effects of Stearic Acid on Thermal and Thermo-Oxidative Stabilities of HDPE*
Aidaalsadat Entezari, Reza Jahanmardi*

P-19 *Infrared and Raman Imaging of Multilayer Films*
Peter Wilhelm*, Boril S. Chernev.

P-20 *Influence of aromatic permeates on polymer pipes studied by dynamic mechanical analysis*
M. Buder-Stroisznigg*, C. J. Bodor, M. M. Mach, G. Pinter, G. Zehethofer

P-21 *Bulk and surface characterization of TPU-materials for sealing applications*
Andreas Hausberger*, Zoltán Major, István Gódor, László Oláh, Thomas Schwarz

P-22 *Molecular weight dependence of essential and non-essential work of fracture of partially crystalline poly(ε-caprolactone)*
Ferenc Tuba, László Oláh*, Péter Nagy

P-23 *Accelerated cyclic fracture mechanics tests to analyze molecular and morphological effects on slow crack growth in modern PE pipe grades*
Anita Redhead*, Gerald Pinter, Andreas Frank

P-24 *Investigation of the slow crack growth behavior of static and cyclic loaded specimens of polyethylene by 2D and 3D optical fracture surface analysis*
Andreas Frank*, Katharina Bruckmoser, Anita Redhead, Dieter Gruber, Gerald Pinter

P-25 *Rapid gas decompression behavior of H-NBR based elastomers*
Bernd Schrittesser*, László Oláh, Zoltan Major, Thomas Schwarz

P-26 *A Complete Solution for the High Temperature Characterization of Polyolefins by Gel Permeation Chromatography*
G. Saunders*, B. MacCreath and S. O'Donohue

Polymer Composites and Nanocomposite Materials

P-27 *Determination of the elongational viscosity of polymer nanocomposites using different measurement methods*
Hannelore Mattausch*, Stephan Laske, Clemens Holzer

P-28 *Influence of shear energy and residence time on physical and mechanical properties of polyethylene nanocomposites*
Andreas Witschnigg*, Stephan Laske, Clemens Holzer

P-29 *Epoxy nanocomposites with surface functionalized silica nanoparticles*
Sajjad Muhammad*, Bernhard Feichtenschlager, Silvia Pabisch, Thomas Koch, Sabine Seidler, Herwig Peterlik, Guido Kickelbick

P-30 *Polymer Nanocomposites Based On Butadiene Rubber/Powder Coating Waste/Nanoclay*
Sepideh Zoghi, Gholamreza Bakhshandeh*, Ghasem Naderi, Morteza Ehsani, Shirin Shokoohi

P-31 *Effect of powder coating waste and nanoclay on Styrene-Butadiene Rubber nanocomposites*
Massoud Haghnegahdar, Gholamreza Bakhshandeh*, Ghasem Naderi, Shirin Shokoohi

P-32 *Effect of Compatibilizer on the Microstructure of PP/EPDM/PA6 Ternary Polymer Blends*
Shirin Shokoohi, Ahmad Arefazar*, Ghasem Naderi

P-33 *Preparation of Nanocomposites based on IIR / CR (Microstructure & Mechanical Properties)*
Javad Azizli, Gholamreza Bakhshandeh, Ghasem Naderi*, Shirin Shokoohi

P-34 *Towards improved Understanding of Nanoparticles Dispersion*
Mirco Altana*, Giovanni Conigliaro, Jens Gobrecht

P-35 *Cross-Linked Zinc Containing Polyuretanes as Templates for the Formation of Zinc Oxide Nanoparticles*
Gabriela Ambrožič*, Srečo D. Škapin, Zorica Crnjak Orel, and Majda Žigon

P-36 *Preparation of nanocomposite polymeric hydrogels*
Manja Kurečič, Majda Sfiligoj Smole, Silvo Hribernik*

P-37 *Synthesis and Characterization of Nano-Polyaniline/ Porous Silicon Heterojunction*
M.A. Shenashen*, S.E. El-Zohary, T. Okamoto, M. Haraguchi

P-38 *Efficient synthesis of cellulose acetate nanoparticles by nanoprecipitation using modified nonsolvents*
Martin R. Kulterer, Martin Reischl*, Victoria E. Reichel, Rupert Kargl, Karin Stana-Kleinschek, Volker Ribitsch

P-39 *Investigation on thermomechanical characteristics of electrical epoxy-mica based composite insulation in high voltage applications*
Dietmar Lenko*, Sandra Schlögl, Sabine Bichler, Gerhard Lemesch, Franz Ramsauer, Wolfgang Kern

P-40 *Development of a high temperature insulation system for electrical machines*
Roman Führer*, Sabine Bichler, Gerhard Lemesch, Franz Ramsauer, Wolfgang Kern

P-41 *Degradation Mechanism of Mechanical and Electrical Durability of HDPE Composites with Glass Fibers*
Umit Alkan*, Yesim Lenger Ozcanli

Synthetic Macromolecular Chemistry

P-42 *Synthesis and Characterization of Chemically Modified Lignins*
Dzanana Dautefendic*and Simone Knaus

P-43 *Photosensitive Thin Polymer Films for Application in Organic Field Effect Transistors (OTFTs)*
M. Edler*, W. Kern, G. Trimmel, A. Pavitschitz Q. Shen, C. Teichert, H.-G. Flesch, S. Ausserlechner, M. Marchl, E. Zojer, R. Resel, T. Griesser

P-44 *Various polyaniline nanostructures synthesized in aqueous ionic liquids solutions*
David Pahovnik*, Ema Žagar, Jiri Vohlidal and Majda Žigon

P-45 *Post-polymerization Functionalization of Poly(vinyl chloride) with 4-Aminothiophenol*
Julia Langer, Nadja Noormofidi*, Christian Slugovc

P-46 *Free radical grafting of novel expoxy-functional monomers onto polypropylene*
Kerstin Wallisch*, Simone Knaus

P-47 *Epoxy-Functionalization of Polyolefins by Reactive Extrusion*
Nguyen Pham Duy Linh*, Simone Knaus

P-48 *Synthesis and characterization of the novel polymer nanostructures*
Lenka Poláková*, Zdeňka Sedláková, Petra Látalová

P-49 *Alternating Diene Metathesis Polycondensation (ALTMET) – Opitimizing Catalyst Loading.*
Mudassar Abbas and Christian Slugovc*

P-50 *Latent ruthenium based initiators: preparation, characterization and application in ROMP*
Eva Pump, Michaela Zirngast, Jörg Albering, Christian Slugovc*

P-51 *The influence of various Ruthenium metathesis initiators on the cis/trans configuration of ROM polymers*
Julia Wappel, Christian Slugovc

P-52 *SIMes versus SIPr in ROMP*
Anita Leitgeb, Hervé Clavier, César A. Urbino Blanco, Steven P. Nolan, Etienne Borré, Marc Maudit, and Christian Slugovc*

P-53 *Microwave-Assisted Synthesis and Swelling Characteristics of 2-Oxazoline Based Hydrogels*
Angela Hecke*, Bianca Wirnsberger, Andrew M. Kelly, Franz Stelzer, Frank Wiesbrock,

P-54 *Preparation of dicyclopentadiene polyHIPE materials by ROMP*
Sebastijan Kovačič, Christian Slugovc*, Peter Krajnc*

P-55 *Synthesis of Photoresponsive Hyperbranched Azopolymers using AB_2 type Monomer*
Md. Zahangir Alam*, Tomonari Ogata, Yutaka Kuwahara, Seiji Kurihara

P-56 *Synthesis and Crosslinking Studies of Poly(2-oxazoline)s*
Lisa Ellmaier*, Angela Hecke, Franz Stelzer, Frank Wiesbrock

P-57 *Radical cross-linking of PBIs*
Katharina Kleine*, Wolfgang Bremser

P-58 *Preparation and properties of novel thermally stable polyamide-imides bearing ether, sulfoxide, and trifluoromethyl linkages*
Ali Javadi*, Abbas Shockravi, Ebrahim Abouzari-Lotf

P-59 *Synthesis and properties of new sulfide bridged poly(thiazole amide imide)s*
Ali Javadi*, Abbas Shockravi, Mahmood Kamali

Polymer Photochemistry

P-60 *Rheological and mechanical behavior of photopolymers with different additives*
Andreas Mautner*, Jürgen Stampfl, Robert Liska

P-61 *UV Reactive Flexible Polynorbornenes with Tunable Refractive Index*
Roman Führer, Ute Daschiel, Thomas Bauer, Georg Jakopic, Volker Schmidt, Valentin Satzinger, Wolfgang Kern

P-62 *Patterned immobilisation of silicon dioxide nanoparticles on photo sensitive polymer films*
Nina Muhr*, Thomas Griesser, and Wolfgang Kern

P-63 *Cross-linking and lithographic patterning of polynorbornenes via thiol-ene reaction*
A. Wolfberger*, T. Griesser, U. Daschiel, W. Kern

P-64 *Chain Transfer Reagents in Radical Photopolymerization*
Astrid Gugg*, Norbert Moszner, and Robert Liska

P-65 *Oxime esters as potential Coinitiators for Radical Photopolymerization*
Claudia Dworak*, Markus Griesser, Georg Gescheidt-Demner, Robert Liska

Surfaces and Interfaces

P-66 *Adsorption Study of Laponite on Regenerated Cellulose Surfaces*
Gerald Findenig*, Martin Reischl, Rupert Kargl, Stefan Spirk, Karin Stana-Kleinschek, Ming Wu, Volker Ribitsch

P-67 *Characterization of chlorinated Polyisoprene Surfaces*
Dietmar Lenko*, Sandra Schlögl, Rebecca Kramer, Raimund Schaller, Armin Holzner, Wolfgang Kern

P-68 *Studies on the surface tension of corona-treated ABS-surfaces*
Peter Fankhauser*, Wolfgang Kern, Johann Kappacher

P-69 *Surface functionalization of cellulose acetate (CA) nanoparticles*
Martin R. Kulterer,Martin Reischl* , Victoria E. Reichel, Rupert Kargl, Karin Stana-Kleinschek, Volker Ribitsch

P-70 *Structuring Ultrathin Cellulose Surfaces with Enzymes*
Rupert Kargl, Martin Reischl*, Stefan Köstler, Aleš Doliška, Karin Stana-Kleinschek, and Volker Ribitsch

P-71 *Direct fluorination of elastomeric surfaces*
Rebecca Kramer, Sandra Schlögl*, Dietmar Lenko, Raimund Schaller, Armin Holzner, Wolfgang Kern

P-72 *Investigation of the binding-sulfide layer formation on brass-coated steel wires using squalene as low-molecular model compound for NR*
Elisabeth Ziegler*, Dieter Gruber, Wolfgang Kern, Claudia Feldgitscher, Armin Holzner, Gregor Trimmel

P-73 *Cellulose model surfaces hydrophilicity tuned using controlled vapour phase hydrolysis*
Mohan Tamilselvan*, Rupert Kargl, Martin Reischl, Aleš Doliška, Karin Stana-Kleinschek, and Volker Ribitsch

P-74 *Characterization of Silicon Wafer Surfaces by AFM, Zeta-Potential- and Contact Angle Measurements.*
Thomas Bodner*, Andreas Behrendt, Emil Prax, Franz Stelzer, Frank Wiesbrock

P-75 *Surface Modification of Polypropylene: Glycoengineering and Maleimide Finishing*
Katrin Fizor*, Simone Knaus, Milana Đukić, Katja Schuler, Vanessa Winmer

P-76 *Polymer Surface Characterization by Streaming Current Measurement*
Thomas Luxbacher

P-77 *Correlation of Zeta Potential and Contact Angle Measurement*
Inge Mühlbacher*, Thomas Luxbacher, Franz Stelzer, and Frank Wiesbrock

P-78 *Investigation of the layer by layer self assembly of different polyelectrolyte pairs*
Heike M.A. Ehmann*, Doris Breitwieser, Stefan Köstler, Martin Reischl, Karin Stana-Kleinschek, Volker Ribitsch

P-79 *Effect of UV radiation on dry and wet conditions on artificially weathered PMMA and PE*

Maalolan Ramanujam*, Renate Mix, Volker Wachtendorf and Joerg F. Friedrich