POLYMER MEETING 15 IN BRATISLAVA

September 4 – 7, 2023

SCIENTIFIC PROGRAM

Mo, Sept 4 2023

11.00 – 13.00	**Registration**
10.30 – 12.30	**Mattek Biotech Company Workshop** (Jobs' Software Studio)

13.00 – 13.20	**Opening** (Aula Magna)		
	Public lecture Chair: I. Lacik (Aula Magna)		
13.20 – 14.00	R. Lang *(Institute of Polymeric Materials and Testing (IPMT), Johannes Kepler University Linz, Austria)* Plastics – essential part of the solution in navigating the great industrial transformation The transition to a "sustainable" all-circular plastics & carbon industry		
14.00 – 14.20	**Coffee break**		
	Plenary session Chair: K. Loos (Aula Magna)		
14.20 – 14.50	PL1: F. Du Prez *(CMaC, Ghent University, Belgium)* Smart chemical design for bringing thermoset materials in a circular economy		
14.50 – 15.20	PL2: S. Lecommandoux (*Laboratoire de Chimie des Polymères Organiques (LCPO), Université de Bordeaux, France)* Biomimetic polymersomes as smart functional therapeutics and protocells		
15.20 – 15.40	**Coffee break**		
	Synthesis Chair: R. Liska (Aula Minor)	**Renewable monomers, Biomaterials** Chair: D. Pahovnik (Turing Hall)	**Renewable monomers** Chair: C. Paulik (Babbage Hall)
15.40 – 16.05	IL1: N. Badi *(CMaC, Ghent University, Belgium)* Synthesis and application of uniform synthetic macromolecules	IL2: J. Mosnacek *(Polymer Institute SAS, Slovakia)* Functional polymers from renewable monomers	IL3: M. Sangermano *(Politecnico di Torino, Italy)* Photopolymerization of biobased epoxy monomers
16.05 – 16.30	IL4: E. Tomsik *(IMC CAS, Prague, Czech Republic)* Acid-assisted polymerization: novel synthetic route of semi-conducting polymer preparation	IL5: S. Baudis *(TU Wien, Austria)* Macromolecular design of materials for biomedical applications	IL6: H. Benes *(IMC CAS Prague, Czech Republic)* Polymer materials derived from bio-based dicarboxylic acids
16.30 – 16.45	CL1: F. Mayer *(TU Wien, Austria)* # Interpenetrating polymer networks for hot lithography with high strength and high toughness	CL2: P. Verdross *(University of Vienna, Austria)* # Black liquor based thermosets	CL3: L. Pezzana *(Politecnico di Torino, Italy)* # Bio-based monomers for UV curable thiol-ene formulations
16.45 – 17.00	CL4: R. Mundil *(Charles Univ., Prague, Czech Republic)* Kinetic investigation of 3-/7-(prop-2-ynyl)oxepan-2-one organocatalyzed (co)polymerization for structure defined macromolecules	CL5: M. Mrlik *(UTB, Zlin, Czech Republic)* Hierarchic structures based on polysaccharides cross-linked with magneto-responsive particles and their 3D printing	CL6: E. Rossegger *(PCCL, Loeben, Austria)* Frontal polymerization of dynamic networks
17.00 – 17.25	IL7: K. Bretterbauer *(JKU, Linz, Austria)* Synthesis and application of charged brush polymers	IL8: K. Velonia *(University of Crete, Greece)* Hybrid biopolymers for sustainable applications: innovations and challenges	IL9: S. Bednarz *(CUT, Cracow, Poland)* Itaconic acid: a little-known renewable monomer
17.30 – 19.00	**Poster session with beer and snacks** (posters available during the entire conference)		

PhD student: eligible for presentation award

Tue, Sept 5 2023

8.00 – 9.00	**Registration**

	Plenary session Chair: R. Hutchinson (Aula Magna)		
9.00 – 9.30	PL3: M. Tanaka *(Kyushu University, Japan)* Design of functional polymeric biomaterials: intermediate water concept for advanced medical devices		
9.30 – 10.00	PL4: K. Loos *(University of Groningen, The Netherlands)* Unleashing the potential of enzymes for green furan-based polymer synthesis		
10.00 – 10.30	PL5: M. Buchmeiser *(University of Stuttgart, Germany)* Catalytic polymerizations: from precision polymers to energy materials back to stereo- and regioselective catalysis		
10.30 – 10.55	**Coffee break**		
	Synthesis Chair: V. Raus (Aula Minor)	**Drug carriers** Chair: D. J. Ahn (Turing Hall)	**Recycling and sustainability** Chair: G. Trimmel (Babbage Hall)
10.55 – 11.20	IL10: R. Liska *(TU Wien, Austria)* New polymer materials by ionic and catalytic photopolymerization using hot lithography	IL11: E. Jäger *(IMC CAS Prague, Czech Republic)* Tumor microenvironment-stimuli responsive nanomedicines for anticancer therapy	IL12: E. Zagar *(Nat. Inst. of Chem., Ljubljana, Slovenia)* Chemical recycling of polymers
11.20 – 11.45	IL13: H. Houck *(University of Warwick, Coventry, UK)* Thermoreversible photocycloadditions: new additions to the designer playground of dynamic polymer networks	IL14: B. Ivan *(Res. Centre Nat. Sci., Budapest, Hungary)* Novel nanostructured amphiphilic macromolecular assemblies as precursors for nanohybrids and intelligent drug carriers	IL15: P. Alexy *(FCHPT STU, Bratislava, Slovakia)* Fully biobased compostable blends for wide range of applications
11.45 – 12.00	CL7: S. Kostjuk *(Belarusian State Univ., Minsk, Belarus)* Alternating copolymerization as a new strategy for the synthesis of polymeric through-space charge-transfer TADF emitters	CL8: S. Letasiova *(MatTek, Bratislava, Slovakia)* Biotechnologically reconstructed human tissue models addressing requirements of regulators in toxicity testing of chemicals, cosmetics, ingredients and formulations	CL9: U. Kirschnick *(MU Leoben, Austria)* # Environmental performance comparison of a one-step and two-step compounding and injection molding process using recycled pp and glass fibers
12.00 – 12.15	CL10: K. Saller *(JKU Linz, Austria)* Challenges of “simple” enzyme-catalyzed polyesterifications	CL11: E. Equy *(LCPO Université de Bordeaux, France)* # Janus polymersomes: toward self-propelled artificial protocells for drug delivery	CL12: K Stubenrauch *(Borealis Polyolefine, Austria)* Applying multiphase polymer design principles for mechanical recycling
12.15 – 12.30	CL13: F. Pashley-Johnson *(QUT, Brisbane, Australia)* # Unravelling the relationship between spatial confinement and quantum yield in photoreactive sequence-defined oligomers	CL14: G. Heinzmann *(Postnova Analytics, Germany)* Comprehensive separation and characterization of nanocarrier-drug systems based on polymers and proteins for nanomedical applications	CL15: B. Liedl *(TCKT, Wels, Austria)* # Characterisation of recovered PET from mixed textile production waste and post-consumer waste textiles
12.30 – 13.30	**Lunch**		
	Synthesis Chair: H. Houck (Aula Minor)	**Biomaterials, biopolymers** Chair: S. Baudis (Turing Hall)	**Energy storage and conversion, characterization** Chair: E. Zagar (Babbage Hall)
13.30 – 13.55	IL16: V. Raus *(IMC CAS Prague, Czech Republic)* Tailoring complex polymeric architectures	IL17: D. J. Ahn *(Korea Univ., Seoul, South Korea)* Ice-active macromolecules and assemblies	IL18: G. Trimmel *(Graz University of Technology, Austria)* Investigations on non-fullerene-acceptor/polymer solar cells

PhD student: eligible for presentation award

13.55 – 14.20	IL19: S. Zapotoczny *(Jagiellonian Univ., Krakow, Poland)* Conjugated polymer brushes in double-stranded and mixed binary architecture	IL20: R. Luxenhofer *(University of Helsinki, Finland)* The quest to unravel a novel mechanism in polymer self-assemblies: an order-order transition based on an unusual molecular interaction between hydrophilic and hydrophobic polymer blocks	IL21: M. H. Yoon *(GIST, Gwangju, South Korea)* Preparation of MXene/PEDOT:PSS composites impregnated with platinum nanoparticles for electrochemical catalysis
14.20 – 14.35	CL16: Y. He *(University of Washington in Seattle, USA)* # Quantitative comparison of the copolymerization kinetics in catalyst-transfer copolymerization of polythiophenes	CL17: P. Holzmuller *(JGU, Mainz, Germany)* # Highly versatile platform of CO_2-based polycarbonates sourced from natural terpenoids	CL18: D. M. Opris *(ETH Zurich, Switzerland)* Artificial muscles closer to application
14.35 – 14.50	CL19: P. Utrosa *(Nat. Inst. of Chem., Ljubljana, Slovenia)* Synthetic polypeptide–polyester polyHIPEs prepared by thiol–ene photopolymerization of macromonomers	CL20: Z. Kronekova *(Polymer Institute SAS, Slovakia)* Electron beam irradiation as a straightforward way to produce tailorable non-biofouling poly(2-methyl-2-oxazoline) hydrogel layers on different substrates	CL21: F. Leibetseder *(JKU, Linz, Austria)* # Multifunctional fluorine-free binders for lithium-ion battery cathodes
14.50 – 15.05	CL22: S. Wierzbicki *(CUT, Cracow, Poland)* # PLP-SEC studies of protic ionic liquid monomers based on methacrylic acid in aqueous and organic solutions	CL23: M. Feuchter *(MU Leoben, Austria)* Biobased stretch films – the future of packaging?	CL24: A. Nada *(Polymer Institute SAS, Slovakia)* Significant improvement on electrochemical performance of hydrothermally synthesized $NiFe_2O_4$ in-situ loaded selectively into graft-polymerized fabric for flexible Al-air batteries
15.05 – 15.30	IL22: W. Kern *(University of Leoben & PCCL, Austria)* Surface initiated polymerization with germanium based photoinitiators	IL23: L. Vojtova *(CEITEC, Brno, Czech Republic)* Comparison of injectable and 3D printed composite bone substitutes: from synthesis to applications in animal models	IL24: M. Slouf *(IMC CAS Prague, Czech Republic)* Micromechanical properties of polymer systems
15.30 – 16.00	**Coffee break**		
	Plenary session Chair: M. Tanaka (Aula Magna)		
16.00 – 16.30	PL6: S. Hecht *(Humboldt-Universität zu Berlin & DWI – Leibniz Institute for Interactive Materials, Aachen, Germany)* Xolography for volumetric 3d printing		
16.30 – 17.00	PL7: R. A. Hutchinson *(Queen's University, Kingston, Canada)* Measurement and modeling of radical polymerization kinetics for process and product development		
17.00 – 17.30	PL8: Y. Men *(Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun & University of Science and Technology of China, Hefei, P. R. China)* Polymorphous selection and transformation in polyolefins		
17.30 – 19.00	**Poster session with beer and snacks** (posters available during the entire conference)		

PhD student: eligible for presentation award

We, Sept 6 2023

8.00 – 9.00	**Registration**

	Plenary session Chair: H. Frey (Aula Magna)		
9.00 – 9.30	PL9: M. Buback *(University of Goettingen, Germany)* Detailed radical polymerization kinetics from pulsed laser experiments		
9.30 – 10.00	PL10: A. Anastasaki *(ETH Zurich, Switzerland)* Modern atom transfer radical polymerization and depolymerization strategies		
10.00 – 10.25	**Coffee break**		
	Synthesis Chair: N. Badi (Aula Minor)	**Biomaterials, Drug carriers** Chair: L. Vojtova (Turing Hall)	**Characterization and processing, testing** Chair: G. Wallner (Babbage Hall)
10.25 – 10.50	IL25: S. Harrisson *(LCPO Université de Bordeaux, France)* Neither block nor random: controlling comonomer distribution in asymmetric and gradient copolymers	IL26: A. Heydari *(Polymer Institute SAS, Slovakia)* Polysaccharide derivatives-based biomaterials: from controlled synthesis to biomedical applications	IL27: C. Burgstaller *(FHOÖ, Wels, Austria)* Applying reactive extrusion to modify polymers for improved compatibility
10.50 – 11.15	IL28: S. Schlögl *(PCCL, Leoben, Austria)* New catalysts for acid- and base-driven bond exchange reactions in dynamic polymer networks	IL29: M. Hruby *(IMC CAS, Prague, Czech Republic)* Thermo-, pH-, rechelation- and reactive oxygen species-responsive polymer contrast agents for non-proton magnetic resonance imaging	IL30: S. Podzimek *(Wyatt Tech. Europe, Germany)* Current status of the determination of molar mass distribution of synthetic and natural polymers
11.15 – 11.30	CL25: S. M. Fischer *(CMaC, Ghent University, Belgium)* Unlocking the potential of sequence-defined oligourethanes for data encryption and beyond	CL26: C. Strasser *(TCKT, Wels, Austria)* 3D printing on unidirectional PA6 tapes and their effect on the mechanical properties	CL27: D. Matousek *(Optik Instruments, Czech Republic)* Breakthrough technologies in FTIR microscopy and their use in the field of polymer analysis
11.30 – 11.45	CL28: F. Pieringer *(TU Wien, Austria)* Group transfer polymerization in bulk methacrylates	CL29: G. S. García-Briones *(IMC CAS, Czech Republic)* Polyelectrolyte nanoparticles based on poly[N-(2-hydroxypropyl) methacrylamide-*block*-poly(N-(3-aminopropyl) methacrylamide] copolymers for delivery of heparin-binding proteins	CL30: S. Wurzer *(Anton Paar GmbH, Austria)* Influence of the crosslinking conditions on dynamic mechanical properties of rubber parts
11.45 – 12.00	CL31: S. Gupta *(IMC CAS, Prague, Czech Republic)* # Rapid (co)polymerization of 2-hydroxyethyl methacrylate by $Cu^{(0)}$-RDRP in a non-polar solvent	CL32: A. Morrissey *(QUT Australia)* # A bioinspired approach to metal binding interfaces	CL33: C. Marchfelder (*JKU, Linz, Austria)* # Characterization of the crosslinking kinetics and laminate properties of silane modified epoxy coatings for electrical steel stacks
12.00 – 12.15	CL34: M. Fitzka *(TU Wien, Austria)* Development of photopolymerizable precursors for self-reinforcing networks for 3D printing	CL35: P. Hajovska *(Polymer Institute SAS, Slovakia)* # Effect of sterilization conditions on properties of gelMA/alginate bioinks	CL36: A. Hacioglu *(University of Helsinki, Finland)* # Tuning LCST behavior of poly(2-ethyl-2-oxazoline) by thionation of amide repeating units
12.15 – 12.30	CL37: K. Ableidinger *(TU Wien, Austria)* # Dynamic thermoplastic polyurethane ureas as self-reinforcing and biodegradable materials	CL38: Z. Benkova *(Polymer Institute SAS, Slovakia)* Atomistic molecular dynamics simulations of proteins interacting with PEO-modified surfaces as a potential protective barrier	
12.30 – 13.30	**Lunch**		

PhD student: eligible for presentation award

	Synthesis, Renewable monomers Chair: S. Harrisson (Aula Minor)	**Biomaterials, biopolymers** Chair: K. Velonia (Turing Hall)	**Testing** Chair: C. Burgstaller (Babbage Hall)
13.30 – 13.55	IL31: K. Ehrmann *(QUT Australia)* Two-in-one photoresist: degradable and non-degradable microstructures from varied laser power	IL32: D. Racko *(Polymer Institute SAS, Slovakia)* Polymer knots in chiral environments by molecular simulations	IL33: G. Wallner (University of Linz, Austria) Ethylene copolymers – tailor-made materials and laminates for solution of the energy crisis
13.55 – 14.10	CL39: R. Sivkova *(IMC CAS, Prague, Czech Republic)* Polymer brushes based on N-methacryloxysuccinimide as versatile platform for post-polymerization modification	CL40: F. Mayer *(University of Vienna, Austria)* # Best of both worlds: Nanocellulose and hypercrosslinked polymer hybrid membranes for simultaneous ultrafiltration and heavy metal ion removal	CL41: H. W. Müller *(University of Vienna, Austria)* Polymer drag reduction: on the relation of molecular weight and drag reduction in turbulent pipe flows
14.10 – 14.25	CL42: M. Starck *(Durham University, UK)* Biosourced aromatic diacids in the redesign of soil release polymers	CL43: A. Mautner *(BOKU, Vienna, Austria)* High-velocity stretching for high-strength renewable polymer blends	CL44: L. Peham *(University of Linz, Austria)* # Monitoring the pathway of temperature dependent degradation of phenolic stabilizers in PP-R by FTIR spectroscopy
14.25 – 14.40	CL45: L. Shaw *(Durham University, UK)* Advancing the field of functionalised, bio-derived polymers synthesised by living anionic polymerisation	CL46: S. Dzatko *(Polymer Institute SAS, Slovakia)* Alginate-based microspheres stabilized by dual covalent and non-covalent crosslinking for potential treatment of diabetes	CL47: M. Micusik *(Polymer Institute SAS, Slovakia)* 2D MXene as nanofillers in PMMA polymer composites
14.40 – 15.05	IL34: C. Slugovc *(TU Graz, Austria)* Di- and polyols as monomers in polyaddition reactions	IL35: A. Bismarck *(University of Vienna, Austria)* Biopolymers from fungi: a simple route to film forming chitin-glucans	IL36: F. Arbeiter (*MU Leoben, Austria)* Tailoring crack growth behavior in extrusion-based additive manufactured polymers via processing and material control
15.05 – 15.25	**Coffee break**		
	Plenary session Chair: M. Buchmeiser (Aula Magna)		
15.25 – 15.55	PL11: H. Frey *(Johannes Gutenberg-University Mainz, Germany)* Replacing poly(ethylene glycol) in medical and pharmaceutical applications: non-immunogenic rPEGs offer intriguing perspectives		
15.55 – 16.25	PL12: C. Luscombe *(Okinawa Institute of Science and Technology, Japan)* Towards the efficient syntheses of semiconducting polymers		
16.30 – 17.30 17:30 – 18:30 18:30 – 22:00	**Drive to Elesko winery (Dubova, Low Carpathian Region),** ~40 km https://www.elesko.sk/elesko-restaurant/ **Wine Cellars Tours, etc.** **Banquet dinner**		

PhD student: eligible for presentation award

Thu, Sept 7 2023

	Plenary session Chair: F. Du Prez (Aula Magna)		
9.00 – 9.30	PL13: P. Theato *(Karlsruhe Institute of Technology (KIT), Germany)* Functional polymers: from new synthetic routes to applications in energy storage		
9.30 – 10.00	PL14: K. Matyjaszewski *(Carnegie Mellon University, Pittsburgh, USA)* Functional (bio)hybrid materials by atom transfer radical polymerization		
10.00 – 10.25	**Coffee break**		
	Synthesis, Characterization & processing Chair: J. Mosnacek (Aula Minor)	**Biomaterials, biopolymers** Chair: A. Bismarck (Turing Hall)	**Recycling and sustainability** Chair: I. Hudec (Babbage Hall)
10.25 – 10.50	IL37: N. Illy *(Sorbonne Université, France)* Alternating ring-opening copolymerization of thiolactones with epoxides/cyclocarbonates: toward a new family of functional polyesters	IL38: S. Hild *(JKU, Linz, Austria)* Characterization of biomedical materials on different length scales	IL39: C. Paulik *(JKU, Linz, Austria)* Chemical recycling of polymers and its effects on olefin polymerization
10.50 – 11.05	CL48: C. Gleissner *(LFU Innsbruck, Austria)* # Surface modification of single polyamide fibres towards increased wettability	CL49: Y. Catel *(Ivoclar Vivadent AG, Liechtenstein)* Block copolymers as efficient toughening agents in low crosslink-density dimethacrylate networks	CL50: M. Bredács *(PCCL, Loeben, Austria)* Multivariate data analyses for improved quality of recycled plastic fractions
11.05 – 11.20	CL51: G. Säckl *(JKU, Linz, Austria)* # Characterization of ethylene-based encapsulants and their degradation products after damp heat exposure by XPS	CL52: M. Kneidinger *(ICP, JKU Linz, Austria)* # Injectable and biodegradable two-component poly(organo)phosphazene hydrogel system based on supramolecular reactions with cyclodextrins	CL53: B. Sölle *(PCCL, Loeben, Austria)* # Bio-based phosphate esters as new transesterification catalysts for green dynamic photopolymer networks
11.20 – 11.35	CL54: H. Svajdlenkova *(Polymer Institute SAS, Slovakia)* Radical induced cationic frontal polymerization: mapping of microstructure properties along a self-propagating front	CL55: J. Svoboda *(IMC CAS, Prague, Czech Republic)* Antifouling properties of poly(2-oxazoline)s and poly(2-oxazine)s: direct comparison of polymer-coated surfaces with the same coating parameters	CL56: A. Manian *(LFU Innsbruck, Austria)* Fate of indigo dye in the recycling of denim through the viscose process
11.35 – 11.50	CL57: D. Kaineder *(Competence Center CHASE, Austria)* # Rheometrical plate-plate characterization of isotactic polypropylene: influence of sample preparation on molecular degradation in rheometry	CL58: R. Süss *(Wood K plus, Linz, Austria)* Modification and depolymerization of organosolv lignin - use as a sustainable substitute for phenol in resin production	CL59: G. Zain *(Polymer Institute SAS, Slovakia)* Biobased amphiphilic polymers as drug carriers prepared by photomediated atom transfer radical polymerization
11.50 – 12.05	CL60: M. Duskova *(IMC CAS, Prague, Czech Republic)* Hidden phase transition in swollen hydrogels – chemical engines to discover	CL61: A. Fantoni *(TU Wien, Austria)* # Synthesis and characterization of homogeneous epoxy networks: development of a sustainable material platform using epoxy-alcohol polyaddition	CL62: R. Sesia *(Politecnico di Torino, Italy)* # UV-cured chitosan-based hydrogels strengthened by tannic acid for the removal of copper ions from water
12.05 – 12.20	CL63: A. Quinteros-Sedano *(Université PSL, France)* # Modulation of the network connectivity in vitrimers	CL64: A. M. Omar *(Polymer Institute SAS, Slovakia)* pH-responsive aminated chitosan coated carboxymethyl cellulose composite microbeads for oral drug delivery	CL65: D. Reisinger *(PCCL, Loeben, Austria)* # Covalent adaptable networks: on-demand activation of dynamic exchange reactions by latent base catalysts
12.20 – 13.20	**Lunch**		
	Synthesis Chair: N. Illy (Aula Minor)	**Synthesis, recycling and renewable monomers** Chair: S. Hild (Turing Hall)	**Nanocomposites, Drug carriers** Chair: M. Hruby (Babbage Hall)
13.20 – 13.45	IL40: O. Brüggemann *(JKU, Linz, Austria)* Designing functional polymers for medical and pharmaceutical applications	IL41: D. Pahovnik *(Nat. Inst. of Chem., Ljubljana, Slovenia)* Ring-opening polymerization of n-carboxyanhydrides: From hybrid block copolymers to porous polymers	IL42: Z. Spitalsky *(Polymer Institute SAS, Slovakia)* Polymer composites with hydrophobic carbon quantum dots for antimicrobial applications

PhD student: eligible for presentation award

13.45 – 14.10	IL43: P. Zinck *(Université de Lille, France)* Tuning the microstructure of polylactide block copolymers obtained by chain shuttling copolymerization	IL44: K. Bernaerts *(AMIBM, Maastricht University, NL)* Renewable and UV-curable latexes via polymerization induced self-assembly	IL45: R. Laga *(IMC CAS, Prague, Czech Republic)* Phosphorus- and fluorine-containing polymers as bio-responsive MR probes
14.10 – 14.35	IL46: P. Knaack *(TU Wien, Austria)* Frontal polymerization	IL47: M. Smulders *(Wageningen University, NL)* Phase separation in imine-based covalent adaptable networks	IL48: J. Kronek *(Polymer Institute SAS, Slovakia)* Gradient copolymers based on poly(2-oxazolines) as a versatile tool for therapeutic applications
14.35 – 14.50	IL49: P. Krajnc *(University of Maribor, Slovenia)* Porous microspheres via multiple emulsion templating	IL50: M. Pitsikalis *(UoA, Athens, Greece)* Employing poly(vinyl ethers) as scaffolds for the synthesis of complex macromolecular architectures	
	Plenary session Chair: C. Luscombe (Aula Magna)		
15.00 – 15.30	PL15: D. Haddleton *(University of Warwick, Coventry, UK)* Flow chemistry for controlled polymerisation and post polymerisation functionalisation – monitoring conversion and MWt by online NMR		
15.30 – 15.40	**Closing the conference, poster and presentation awards** (Aula Magna)		

Fri, Sept 8 2023

10.00 – 13.00 Bratislava City Tour

PhD student: eligible for presentation award

Poster contributions

1	Ch. Biermaier #	Percolation efficiency and interface issues of copper plated plain woven lyocell fabrics
2	G. Huerta-Angeles	pH-sensitive behavior of nanocomposite hydrogels based on poly (itaconic acid)/clay for effective adsorption of methylene blue
3	Ch. Schmidleitner #	Synthesis and characterization of magnetic photopolymers for nanoimprint lithography
4	A. Stepura #	HAVOH-based polymeric nanocomposites
5	M. Ilcikova	Effect of polymer brushes grafted from graphene oxide on rheology of PMMA/SAN blends
6	D. Pathiwada #	Advanced polymerization techniques in surface engineering
7	J. Kovac	Polysaccharide-based injectable hydrogels as a scaffolds for cell delivery
8	R. Seyed Alian #	Dose-dependent effects of quaternized chitosan, GO, and AGNPs on oxidative stress and cell status in *acheta domesticus*
9	K. Mosnackova	Novel fully biodegradable PLA/PHB blends filled with keratin
10	K. Tadyszak	Phthalocyanine partial oxygen pressure sensor
11	L. Musilova	Cross-linked gelatine by modified dextran as a potential bioink prepared by a simple and non-toxic process
12	F. Kazemi-Aghdam #	A minimally invasive implantation platform based on alginate hydrogels meditated by reversible dynamic covalent bonds
13	T. Lazou #	Protein-polymer conjugates from renewable lignin feedstocks
14	M. Buchacher-Kröll #	Investigation of the oxidation stages of protein fibres by labelling thiol moieties with Au
15	M. Atya Elmeligy	Designing a new generation of β-cyclodextrin polymer through cyanoguanidine incorporation
16	A. Fantoni #	Stimuli-responsive biomaterials: enabling the spatiotemporal micropatterning of photoresponsive hydrogels *via* disulfide-based linkers
17	M. Schwaiger #	UV-stabilization of linseed oil-based epoxy resin
18	S. Sadjadi	Digital light processing printing of 3D printed heteropolyacid@metal-organic framework: a promising approach for catalytic applications
19	S. Sadjadi	Biopolymer encapsulated metal-organic framework/keggin as a multi-task catalyst for cascade reaction
20	P. Strasser #	Phosphorus as a versatile building block for degradable polymer therapeutics
21	A. Minarcikova #	Poly(2-isopropenyl-2-oxazoline) as a polymeric drug carrier
22	D. Hlavata	Nanoparticles based on poly(2-oxazoline)s: characterization and drug delivery in hydrogels intended for cartilage regeneration
23	M. Majercikova #	Modification of poly(2-isopropenyl-2-oxazoline) with aspirin
24	S. Pytlikova #	Polymer-pirarubicin nanomedicines employing hydrophilic methacrylamide copolymers
25	R. Ghonim	Design of sulfonated polystyrene grafted cellulose acetate membrane for direct methanol fuel cells
26	O. Tooley #	MaDDOSY: Mass Determination Diffusion Ordered Spectroscopy on the bench top

PhD student: eligible for poster award

27	M. Gleirscher #	Development and characterization of functional coatings to improve the friction behavior of thermoplastic surfaces
28	B. Zdovc #	Method for characterization of end-group functionality of recycled polyether polyols recovered from flexible polyurethane foams
29	D. Bautista #	Development of reprocessable adhesive systems for carbon and glass fiber reinforced polymer applications
30	K. Plevova #	Exploring crystallinity in polymers blends on nanoscale
31	N. Moser #	Influence of orientation of the filler on the thermal conductivity of injection molded polymer heat sinks compared to 3D printed polymer heat sinks
32	Ch. Angerer #	Microscopic characterization of interfaces in additive manufactured (3D printed) multi-component samples
33	J. Navratilova	Morphology and properties of annealed beta-nucleated polypropylene
34	D. Jaska #	Crystallization of polypropylene with silanized silica
35	F. Mamon #	Creating of cheap geopolymer coatings based on alkali-activated metakaolin on metal substrates
36	J. Mares #	Comparison of adhesion on alkali-activated metakaolin geopolymer coatings on metal substrates
37	D. Elumalai	Supercritical CO_2 assisted foaming of polymer nanocomposites – insights into the addition of nano and micro fillers
38	I. Ismael #	Polyester networks based on ε-caprolactone and renewable tulipalin A
39	M. Kovacova	Hollow conductive fibers from melt electrospinning
40	G. Abilova	Production and characteristics of films based on gellan and poly(2-ethyl-2-oxazoline) for eye drug delivery
41	J. Lang #	Copolymerization of epoxyeugenol and bisphenol A diglycidyl ether
42	J. M. Uher #	Sequential dual-curing of electron-deficient olefins and alcohols relying on oxa-Michael addition and anionic polymerization
43	M. Kaiser #	Combining chain flexibility and covalent bonding: polyether prepolymers for elastic thermoset adhesives
44	V. Mueller #	Biocompatible thermoplastic elastomers by combining rPEG and polylactide
45	T. Dinh #	Aliphatic metal-chelating hydroxamic acid-functionalized polymethacrylates via RAFT-polymerization
46	T. Gab #	Block copolymer electrolytes combining polystyrene and amorphous poly(ethylene oxide-*co*-glycidyl methyl ether)
47	D. Schulz #	Synthesis and functionalization of polyethylene glycol (PEG) isomers: reinventing a well-known polymer
48	Y. Xu #	Functionally graded polyHIPEs with controlled compositions
49	F. Mayer #	Novel radical photoinitiators based on germanium with long wavelength absorption for high curing depth
50	K. Ableidinger #	Novel photoinitiator systems for step-growth polymerization
51	I. Ivanova	Swelling behaviour of newly synthesized pH-sensitive grafted polymer
52	F. Pieringer #	Cyclopolymerization as versatile tool in photopolymerization towards low shrinkage behavior
53	S. Kapeller #	Acrylamide based organogel electrolytes
54	S. M. Elbayomi	Surface modified cellulose nanocrystals as fillers for polylactide/poly (hydroxybutyrate) based composites

PhD student: eligible for poster award

55	D. Pindric #	Alternative co-catalysts for the Ziegler-Natta catalysis
56	N. Babaei #	Synthesis of graphene oxide particles grafted with poly (trifluoroethyl methacrylate) through surface-initiated atom transfer radical polymerization for tribology applications
57	M. Fitzka #	Synthesis of ultrasound-responsive hydrogels based on poly(2-oxazoline)s as drug delivery system and their sonorheological investigation
58	M. Cvek	ZnO as the versatile co-catalyst for oxygen-tolerant external ATRP
59	G. Linden #	Poly(terpenyl glycidyl ethers): copolymerization with ethylene oxide, properties, and functionalization
60	D. Kubies	Charge-shifting polycation poly(dimethylaminoethyl acrylate): synthesis and hydrolytical stability
61	M. Gurska #	Synthesis of bromide initiators based on naphtaleneimide and their application as initiators in photo-ATRP
62	S. K. Lenka #	Functional polymers from renewable monomers
63	Ch. P. Sagita #	Flow reactor as an improvement in oxygen-tolerant ATRP for PISA and other copolymers synthesis
64	S. Diendorfer #	Photo-induced catalytic curing of isocyanates
65	D. Fuchs #	Synthesis of novel α-hydroxyacids modified poly(methacrylate) copolymers for the use as drug coatings
66	B. Liedl #	Recycling of multilayer film components by cryogenic separation
67	T. Höftberger	The influence of multiple recycling rounds on the mechanical properties, the melt-flow-rate, and oxidation induction time of PP-cellulose short fiber-compounds
68	S. Czaker #	Yogurt cup recycling – effects of different washing programs on VOC emission
69	M. Grdadolnik #	Chemical recycling of flexible polyurethane foams by acidolysis
70	M. Bergoglio #	Sustainable bio-based UV-cured epoxy vitrimer from castor oil
71	L. Graf #	Screening of enzyme-catalyzed polycondensation of bio based monomers in solution
72	G. Riedl #	Crosslinking kinetics and adhesion properties of polyolefin elastomers for photovoltaic module encapsulation
73	M. Tiefenthaler #	Failure mechanisms of aged glass laminates based on polar ethylene copolymer film adhesives
74	M. Ninou Codina #	Improved environmental fatigue resistance of electrical vehicle laminates by substrate pre-treatment
75	D. Ostner #	Application of DSC and ATR-IR to the textile waste stream as an input for pet recycling
76	L. Haiden #	Lateral force microscopy investigation of nanoparticle and thin film bonding properties onto carbon fibers
77	M. Huszar #	The influence of roughness on nanoindentation for testing of local mechanical properties
78	L. Brandfellner #	Viscous or elastic – characterizing polymer behavior in turbulent flow
79	D. G. Mascher	HPLC Determination of Polymers
80	M. Puskar	In vitro reconstructed 3D model of human small intestine epithelium for assessment of substance bioavailability and safety
81	P. Machata	Modified surfaces on thin films of Al and Ag black metals for gas sensing applications: XPS and contact angle study

PhD student: eligible for poster award

82	S. Wurzer	Company presentation Anton Paar
83	R. Ismail	Sequential in-situ growth of device based on thiophene for optoelectronic applications

PhD student: eligible for poster award