16th Biennial Bayreuth Polymer Symposium



September 22 - 24, 2019 Bayreuth, Germany

Conference Program

For registration visit www.bps-bayreuth.de

Sunday, September 22, 2019		
16:00 - 19:30	Registration (Building NW II)	
	General Session I (Lecture Hall H 18)	
17:45 – 18:00	Opening Remarks	
18:00 – 18:30	1 Krzysztof Matyjaszewski, Carnegie Mellon University, Pittsburgh "Macromolecular engineering by taming free radicals"	
18:30 – 19:00	2 Katharina Landfester, Max Planck Institute for Polymer Research, Mainz "Polymeric modules for synthetic biology"	
19:00 – 19:30	3 Ulrich Schubert , Friedrich-Schiller-University Jena "Engineering functional macromolecules for the 21 st century: Tailor-made polymers and nanoparticles for applications in nanomedicine"	
19:30	"BPS": Beer, Pretzels, Sausages (Foyer, Building NW II)	

Venue: University of Bayreuth | Building NW II | Universitätsstr. 30 | D-95447 Bayreuth

Monday, September 23, 2019			
	General Session II (Lecture Hall H 18) Chair: Mukundan Thelakkat		
09:00 - 09:30	4 Andreas Herrmann, DWI - Leibniz-Institute for Interactive Materials, Aachen "Interfacing DNA- and supercharged polypeptide precision polymers with living systems"		
09:30 - 10:00	5 Rachel Segalman, University of California, Santa Barbara "Polymeric ionic liquids for multivalent ion transport"		
10:00 - 10:30	6 Jürgen Groll, University of Würzburg "Polymer based biomaterial inks and bioinks"		
10:30 – 11:30	Introduction to Posters - Session I Chair: Peter StrohriegI		
11:30 - 12:30	Poster Discussion I, II, and III		
12:30 - 13:30	Lunch Break (Mensa)		
	General Session III (Lecture Hall H 18) Chair: Thomas Scheibel	General Session IV (Lecture Hall H 19) Chair: Markus Retsch	
13:30 – 13:55	7 Gregory Tew , University of Massachusetts, Amherst "Simple polymers that mimic natural proteins: From T-cell delivery to novel networks"	13 II Do Kim , Korea Advanced Institute of Science and Technology, Daejeon "Nanofiber technology: Energy storage applications"	
13:55 – 14:20	8 Laura De Laporte, DWI - Leibniz Institute for Interactive Materials, Aachen "Synthetic building blocks for regenerative materials"	14 Theo Dingemans, University of North Carolina at Chapel Hill "Mixing rods and discs: strong nanocomposites from aqueous hybrid liquid crystals"	
14:20 – 14:45	9 Kristian Kempe , Monash University, Parkville "Macromolecular design of functional biocompatible polymeric materials using 2-oxazolines"	15 Zhi-Kang Xu, Zhejiang University "Mussel-inspired chemistry for advanced janus membranes"	
14:45 – 15:10	10 Boaz Mizrahi, Technion-Israel Institute of Technology, Haifa "New directions in polymeric tissue adhesives"	16 Soumyadip Choudhury, Technische Universität Chemnitz "Exploring Inverse Vulcanization for Hybrid Organosulfur / CNT Networks As Cathode for Li-S Batteries"	
15:10 – 15:35	11 Christopher Synatschke, Max Planck Institute for Polymer Research, Mainz "Supramolecular-covalent polymer hydrogels – combining the best of small and large molecules"	17 Hanying Li , Zhejiang University "Spatial distribution of the degree of crystallinity in polymer films"	
15:35– 16:00	12 Pol Besenius, Johannes Gutenberg-University Mainz "Peptide-polymer conjugates as a toolbox for viromimetic assemblies and thermoresponsive hydrogels"	18 Dirk Schubert, Friedrich-Alexander-University Erlangen-Nuremberg "Revealing novel power laws and quantization in electro- spinning considering jet splitting – towards predicting fiber diameter and its distribution"	
16:00 - 16:30	Coffee Break		
	Special Session Microplastic and Sustainable Polymers (Lecture Hall H 18) Chair: Andreas Greiner		
16:30 – 17:00	19 Christian Laforsch, University of Bayreuth "Microplastics in the environment"		
17:00 – 17:30	20 Jes Vollertsen, Aalborg University "Analyzing for microplastics in environmental matrixes with μFTIR imaging"		
17:30 – 18:00	21 Seema Agarwal, University of Bayreuth "Environmental degradability of classified biodegradable polymers"		
18:00 – 18:30	22 Moshe Kol, Tel Aviv University "Tailor-made poly(lactic acid) based materials"		
19:00 – 20:30	Reception and Concert at Villa Wahnfried, Richard-Wagner-Str. 48, 95444 Bayreuth Bus transfer to Villa Wahnfried at 18:45, departure at Infopoint 6		

ruesday,	September 24, 2019		
	General Session V (Lecture Hall H 18) Chair: Hans-Werner Schmidt		
09:00 - 09:30	23 Edwin L. Thomas, Rice University, Houston "Characterization of sub-unit cell morphology in tubular network block copolymers"		
09:30 - 10:00	24 Christopher K. Ober, Cornell University, Ithaca "Metal organic cluster photo-resists for next generation EUV lithography"		
10:00 – 10:30	25 Edward T. Samulski, University of North Carolina, Chapel Hill "On the founding and science underlying Carbon's CLIP 3D printing"		
10:30 – 11:30	Introduction to Posters - Session II Chair: Markus Retsch		
11:30 – 12:30	Poster Discussion I, II, and III		
12:30 – 13:30	Lunch Break (Mensa)		
	General Session VI (Lecture Hall H 18) Chair: Seema Agarwal	General Session VII (Lecture Hall H 19) Chair: Georg Papastavrou	
13:30 – 13:55	26 George Fytas, Max Planck Institute for Polymer Research, Mainz "Hypersonic phonon propagation and benefits to polymer science"	32 Shlomo Magdassi , The Hebrew University, Jerusalem "From Gutenberg Bible to 4D printing"	
13:55 – 14:20	27 Kay Saalwächter, Martin-Luther-University, Halle-Wittenberg "Hierarchical sticker and sticky chain dynamics in self-healing butyl rubber ionomers"	33 Guillaume Delaittre , Karlsruhe Institute of Technology, Karlsruhe "Polymeric nanostructures with surface-reactive nanodomains"	
14:20 – 14:45	28 Jürgen Senker, University of Bayreuth "Structure, disorder and function of supramolecular polymer additives – An NMR crystallographic study"	34 Eyal Zussman, Technion - Israel Institute of Technology, Haifa "Self-ordering in a mix of two oppositely weakly charged polyelectrolytes"	
14:45 – 15:10	29 James Watkins, University of Massachusetts "Porous carbon and multi-layer graphene/carbon composite films for energy applications from brush block copolymer templates and simple precursors"	35 Stephen Schrettl , University of Fribourg "Tunable and responsive supramolecular polymer materials"	
15:10 – 15:35	30 Ilja Gunkel , University of Fribourg "Controlling electrode wetting to overcome surface reconstruction limited conductivity in block copolymer Li battery electrolytes"	36 Rachel Yerushalmi-Rozen, Ben-Gurion University of the Negev, Beer-Sheva "Co-assembly in strongly interacting polymernanostructures systems"	
15:35 – 16:00	31 Ralph Lange, Stanford University "Charge-altering releasable transporters (CARTs): polymers for mRNA-based therapeutics"	37 Nicolas Vogel, Friedrich-Alexander-University Erlangen-Nuremberg "Interfacial behavior and complex self-assembly of colloidal building blocks"	
16:00 – 16:30	Coffee Break		
	General Session VIII (Lecture Hall H 18) Chair: Andreas Greiner		
16:30 – 17:00	38 Markus Biesalski, Technical University of Darmstadt "Stimulus-responsive barrier-coatings on paper using biogenic polymers"		
17:00 – 17:30	39 Andreas Walther, University of Freiburg "Polymer science concepts in the DNA World"		
17:30 – 18:00	40 Martin Möller , DWI - Leibniz-Institute for Interactive Materials, Aachen "Can a material perform as an engine?"		
18:00 – 18:30	Poster Awards, Concluding Remarks Andreas Greiner and Hans-Werner Schmidt		
19:00	Conference Dinner at Restaurant "Zur Sudpfanne", Oberkonnersreuther Str. 6, 95448 Bayreuth Bus transfer to Restaurant "Zur Sudpfanne" at 18:45, departure at Infopoint 6		