

# 18<sup>th</sup> Biennial Bayreuth Polymer Symposium



September 17 - 19, 2023  
Bayreuth, Germany

## Conference Program

Sunday, September 17, 2023	
15:30 – 19:30	<b>Registration</b> (Building NW II)
	<b>Session I</b> (Lecture Hall H 18)
17:30 – 17:40	<b>Opening Remarks</b> <i>Hans-Werner Schmidt, University of Bayreuth</i>
17:40 – 18:00	<b>A tribute to Helmut Ringsdorf</b> <i>Rudolf Zentel, Andre Laschewsky, Hans-Werner Schmidt</i>
18:00 – 18:45	<b>01 Joseph De Simone</b> , Stanford University, Palo Alto, USA <i>“3D Printing AT SCALE to Drive Global Sustainability Goals”</i>
18:45 – 19:30	<b>02 Markus Antonietti</b> , Max Planck Institute of Colloids and Interfaces, Potsdam, Germany <i>“Simply Black Magic: Organic catalysis for Polymer Degradation”</i>
19:30	<b>“BPS”</b> : <b>Beer, Pretzels, Sausages</b> (Foyer, Building NW II)

## Monday, September 18, 2023

	<b>Session II</b> (Lecture Hall H 18) Chair: Andreas Greiner	
09:00 – 09:30	<b>03 Krzysztof Matyjaszewski</b> , Carnegie Mellon University, Pittsburgh, USA <i>“Controlling Polymer Architecture by PhotoATRP”</i>	
09:30 – 10:00	<b>04 Xinliang Feng</b> , Max Planck Institute of Microstructure Physics, Technische Universität Dresden, Germany <i>“On-Water Surface Chemistry for Polymer Synthesis: Towards a World of Organic 2D Crystals”</i>	
10:00 – 10:30	<b>05 Alejandro J. Müller</b> , University of the Basque Country UPV/EHU, Donostia-San Sebastián, Spain <i>“The influence of stereo-configuration and stereo-defects on the crystallization and properties of Poly(3-hydroxybutyrate)”</i>	
10:30 – 11:30	<b>Poster Session I: Introduction to posters</b> Chair: Markus Retsch	
11:30 – 12:30	<b>Discussion Posters I, II, and III at the posters</b>	
12:30 – 13:30	<b>Lunch Break</b> (Mensa)	
	<b>Session III</b> (Lecture Hall H 18) Chair: Seema Agarwal	
13:30 – 14:00	<b>06 Jian Ji</b> , Zhejiang University, Hangzhou, China <i>“Biomaterial research: from bioinspired to data driven approach”</i>	
14:00 – 14:30	<b>07 Laura Hartmann</b> , University of Freiburg, Germany <i>“Life is sweet – glycopolymers for biomedical applications”</i>	
14:30 – 15:00	<b>08 André Laschewsky</b> , University of Potsdam, Germany <i>“Designing Polyzwitterions beyond Phospholipid Polymers”</i>	
15:00 – 15:15	<b>Break</b>	
	<b>Session IV</b> (Lecture Hall H 18) Chair: Markus Retsch	<b>Session V</b> (Lecture Hall H 19) Chair: Meike N. Leiske
15:15 – 15:45	<b>9 Nicolas Vogel</b> , Friedrich-Alexander University Erlangen, Germany <i>“Adsorption of colloidal particles to interfaces: From coffee stains to nanoplastic removal”</i>	<b>12 Sabine Beuermann</b> , Clausthal-University of Technology, Clausthal-Zellerfeld, Germany <i>“Poly(vinylidene fluoride) – a polymer for advanced applications”</i>
15:45 – 16:15	<b>10 Stephan Förster</b> , Martin Dulle, Vladislava Fokina, Forschungszentrum Jülich, Germany, Thomas Gruhn, University of Bayreuth, Germany <i>“Quasicrystals optimize sphere packing”</i>	<b>13 Sahika Inal</b> , King Abdullah University of Science and Technology, Thuwal, Saudi Arabia <i>“Polymer-based mixed conductors for bioelectronics”</i>
16:15 – 16:45	<b>11 André H. Gröschel</b> , University of Bayreuth, Germany <i>“Polymer Cubosomes: Self-assembled high surface area microparticles”</i>	<b>14 Alexander Giovannitti</b> , Chalmers University of Technology, Gothenburg, Sweden <i>“Design and synthesis of efficient redox-active polymers for electrochemical transistors”</i>
16:45 – 17:15	<b>Coffee Break</b>	
	<b>Session VI</b> (Lecture Hall H 18) Chair: Mukundan Thelakkat	
17:15 – 17:45	<b>15 Jonas Mindemark</b> , Uppsala University, Sweden <i>“New insights into established mechanisms – ion coordination and ion transport in polymer electrolytes”</i>	
17:45 – 18:15	<b>16 Martin Möller</b> , Batene GmbH, Wendlingen, Germany, Joachim P. Spatz, Max Planck Institute for Medical Research, Heidelberg, Germany <i>“Electrifying anytime and everywhere – we need better batteries”</i>	
18:15 – 18:45	<b>17 Ulrich S. Schubert</b> , Friedrich Schiller University Jena, Germany <i>“Batteries based on redox-active polymers (in particular redox-flow batteries)”</i>	
19:15 – 20:30	<b>Reception and Concert at Villa Wahnfried, Richard-Wagner-Str. 48, 95444 Bayreuth</b> <i>Bus transfer to Villa Wahnfried at 19:00, meet at Infopoint 6</i>	

## Tuesday, September 19, 2023

	<b>Session VII</b> (Lecture Hall H 18) Chair: Hans-Werner Schmidt	
09:00 – 09:30	<b>18 Ed Samulski</b> , Theo Dingemans, University of North Carolina at Chapel Hill, USA <i>“3D Printing of ‘Impossible to Print’ High-Performance Polymers”</i>	
09:30 – 10:00	<b>19 Patrick Theato</b> , Karlsruhe Institute of Technology, Germany <i>“Polymers based on Sulfur”</i>	
10:00 – 10:30	<b>20 James J. Watkins</b> , University of Massachusetts Amherst, USA <i>“Bottle-Brush Block Copolymer Templated Porous Carbons for Energy Storage and Catalysis”</i>	
10:30 – 11:30	<b>Poster Session II: Introduction to posters</b> Chair: Seema Agarwal	
11:30 – 12:30	<b>Discussion Posters I, II, and III at the posters</b>	
12:30 – 13:30	<b>Lunch Break</b> (Mensa)	
	<b>Session VIII</b> (Lecture Hall H 18) Chair: Thomas Scheibel	<b>Session IX</b> (Lecture Hall H 19) Chair: André H. Gröschel
13:30 – 14:00	<b>21 Lutz Nuhn</b> , Julius-Maximilians University of Würzburg, Germany <i>“Harnessing macromolecular strategies for enhancing immunotherapies”</i>	<b>24 Jens-Uwe Sommer</b> , Helmut Schießel, Holger Merlitz, Leibniz Institute of Polymer Research Dresden, TU Dresden, Germany <i>“Polymer Assisted Condensation: From Polymer Physics to Epigenetics”</i>
14:00 – 14:30	<b>22 Meike N. Leiske</b> , University of Bayreuth, Germany <i>“Amino acids - Building blocks for the synthesis of polymers with tailored properties beyond proteins”</i>	<b>25 Arthi Jayaraman</b> , Zijie Wu, Audrey Collins, University of Delaware, Newark, USA <i>“Molecular Modeling, Simulations, and Machine Learning for Understanding Structure and Properties in Methylcellulose Solutions”</i>
14:30 – 15:00	<b>23 Matthias Hartlieb</b> , University of Potsdam, Germany <i>“Antimicrobial Polymers - Matters of Shape and Amphiphilicity”</i>	<b>26 Dirk W. Schubert</b> , Alexander M. Bier, Stefan Schrüfer, FAU Erlangen-Nürnberg, Germany <i>“Novel opportunities to investigate elongational behaviour of polymer melts and bio inks”</i>
15:00 – 15:15	<b>Break</b>	
	<b>Session X</b> (Lecture Hall H 18) Chair: Georg Papastavrou	
15:15 – 15:45	<b>27 Jürgen Rühle</b> , University of Freiburg, Germany <i>“Tailormade Polymer Networks for the Generation of Engineered Biointerfaces and Stimulus-responsive Actuators for Adaptive Architecture”</i>	
15:45 – 16:15	<b>28 Joerg Lahann</b> , Biointerfaces Institute, University of Michigan, Ann Arbor, USA <i>“Nanofiber-decorated surfaces via vapor-based polymerization”</i>	
16:15 – 16:45	<b>29 Frank Würthner</b> , Julius-Maximilians-University of Würzburg, Germany <i>“Controlling Supramolecular Polymerization by Molecular Chaperone Analoga”</i>	
16:45 – 17:15	<b>Coffee Break</b>	
	<b>Session XI – Session on the occasion of the retirement of Hans-Werner Schmidt</b> (Lecture Hall H 18) Chair: Andreas Greiner, University of Bayreuth and Ed Samulski, University of North Carolina at Chapel Hill, USA	
17:15 – 17:30		
17:30 – 18:00	<b>30 Andreas Fery</b> , Quinn Besford, Leibniz Institut für Polymerforschung e.V., Institute for Physical Chemistry and Polymer Physics, Dresden, Germany <i>“Making Materials Communicative”</i>	
18:00 – 18:30	<b>31 Christopher K. Ober</b> , Cornell University, Ithaca, NY, USA <i>“Low stochasticity for Extreme UV Patterning: Photoresists with precise size, composition and sequence”</i>	
18:30 – 19:00	<b>32 E.W. Meijer</b> , Eindhoven University of Technology, the Netherlands <i>“Functional supramolecular systems and materials: Lessons learned from Hans-Werner Schmidt”</i>	
19:00 – 19:15	<b>Poster Awards, Concluding Remarks</b> Andreas Greiner, Hans-Werner Schmidt	
20:00 – 23:30	<b>Conference Dinner at Restaurant “Liebesbier”, Andreas-Maisel-Weg 1, 95445 Bayreuth</b> <i>Bus transfer to Restaurant “Liebesbier” at 19:30, meet at Infopoint 6</i>	