

| <b>Meeting in Messe Freiburg</b><br><b>Monday February 26, 2024</b> |                                                                                                                                                                                                         |
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| <b>08:00 – 09:00</b>                                                | <b>Registration and Check-In</b>                                                                                                                                                                        |
| <b>Morning Session 09:00 – 12:45</b>                                |                                                                                                                                                                                                         |
| 09:00 – 09:10                                                       | <b>OPENING REMARKS</b><br>PROF. PRASAD SHASTRI (Meeting Chair, University of Freiburg)                                                                                                                  |
|                                                                     | <b>Session – I</b><br>Chair: PROF. PRASAD SHASTRI                                                                                                                                                       |
| 09:10 – 09:30                                                       | <b><i>In memoriam</i> Prof. Helmut Ringsdorf</b><br>PROF. LEO GROS (Hochschule Fresenius gGmbH) (Invited)                                                                                               |
| 09:30 – 10:10                                                       | <b>Meeting Plenary - I</b><br>PROF. NICHOLAS PEPPAS (University of Texas, Austin) (Invited)<br>Structure, Mechanics and Diffusive Characteristics of Non-Gaussian, Multi-Arm, Multi-Functional Networks |
| 10:10 – 10:50                                                       | <b>POSTER INTRODUCTION I</b><br>Chair: PROF. SEEMA AGARWAL                                                                                                                                              |
| 10:50 – 11:25                                                       | Coffee Break / Poster Viewing                                                                                                                                                                           |
|                                                                     | <b>Session – II</b><br>Chair: PROF. NICO BRUNS                                                                                                                                                          |
| 11:25 – 11:45                                                       | PROF. ANDRE LASCHEWSKY (Fraunhofer IAP)<br>Dye-Functionalized Multi-responsive Polymers: Combining Temperature and Light as Non-invasive Stimuli                                                        |
| 11:45 – 12:05                                                       | PROF. DORINA OPRIS (Swiss Federal Laboratories for Materials Science and Technology (Empa))<br>Stimuli-Responsive Smart Elastomers                                                                      |
| 12:05 – 12:45                                                       | <b>POSTER INTRODUCTION II</b><br>Chair: PROF. SEEMA AGARWAL                                                                                                                                             |
| 12:45 – 14:15                                                       | <b>LUNCH BREAK / Poster Viewing (Lunch provided at venue)</b>                                                                                                                                           |
|                                                                     |                                                                                                                                                                                                         |
| <b>Afternoon Session 14:15 – 18:00 (2:15 PM – 6:00 PM)</b>          |                                                                                                                                                                                                         |
|                                                                     | <b>Session - III Young Scientists Session (sponsored by ALTANA)</b><br>Chair: PROF. LAURA HARTMANN                                                                                                      |
| 14:15 – 14:35                                                       | DR. TAYLOR NELSON (University of Konstanz)<br>Degradable and Recyclable Long-Chain Aliphatic Polyesters from Bio-Based and Waste-Sourceable Feedstocks                                                  |
| 14:35 – 14:55                                                       | DR. FRIEDERIKE ADAMS (University of Stuttgart)<br>The Power of Yttrium: Versatile Synthesis of Functional Copolymers for Nanomedical Applications                                                       |
| 14:55 – 15:15                                                       | DR. MARIA HOENKE (Martin Luther University Halle-Wittenberg)<br>Targeting the Endosomal Membrane by Biomimetic, pH-sensitive Polymers                                                                   |
| 15:15 – 15:40                                                       | WILEY MACROMOLECULAR RAPID COMMUNICATIONS YOUNG RESEARCHER LECTURESHIP (TALK AND AWARD CEREMONY)<br><b>To be announced LIVE during the Colloquium</b>                                                   |
| <b>15:40 – 16:20</b>                                                | <b>Coffee Break / Poster Viewing</b>                                                                                                                                                                    |

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|                                                          | <b>Session - IV</b><br>Chair: PROF. TANJA WEIL                                                                                                                                                                |
| 16:20 – 16:50                                            | DR. RUPERT KONRADI (BASF) (Invited)<br>Collaboration Across Interfaces                                                                                                                                        |
| 16:50 – 17:20                                            | PROF. SEEMA AGARWAL (University of Bayreuth) (Invited)<br>Polymer Architectures with Predetermined Breaking Points for After-Use Degradation Options                                                          |
| 17:20 – 17:50                                            | DR. ERIK LICHT (LyondellBasell)<br>Analytics of Recyclates – Enabling Closing the Loop of Plastics                                                                                                            |
| 19:30 – 23:00                                            | <b>Dinner in Mensa Rempartstrasse (Rempartstraße 18)</b><br><b>(Doors open at 19:15)</b>                                                                                                                      |
| <b>-----End of Day 1-----</b>                            |                                                                                                                                                                                                               |
|                                                          |                                                                                                                                                                                                               |
| <b>Tuesday February 27, 2024</b>                         |                                                                                                                                                                                                               |
| <b>Morning Session 09:00 – 12:35</b>                     |                                                                                                                                                                                                               |
| 09:00 - 10:30                                            | <b>Session - V</b><br>Chair: PROF. ANDREAS WALTHER                                                                                                                                                            |
| 09:00 – 09:40                                            | <b>Meeting Plenary - II</b><br>PROF. XINLIANG FENG (Max Planck Institute of Microstructure Physics) (Invited)<br>Advances in Organic 2D Crystals – From On-Water Surface Chemistry to Functional Applications |
| 09:40 – 10:00                                            | PROF. JOHANNES BRENDDEL (University of Bayreuth)<br>Guiding Polymer Self-Assembly towards One-Dimensional Nanostructures                                                                                      |
| 10:00 – 10:30                                            | PROF. MICHAEL SOMMER (TU Chemnitz) (Invited)<br>New Ionomers for Proton and Anion Exchange Membranes                                                                                                          |
| 10:30 – 11:15                                            | <b>Coffee Break / Poster Viewing</b>                                                                                                                                                                          |
|                                                          | <b>Session – VI</b><br>Chair: PROF. JOHANNES BRENDDEL                                                                                                                                                         |
| 11:15 – 11:45                                            | PROF. JÖRG TILLER (TU Dortmund) (Invited)<br>Empowering the Biological Activity of Antibiotics by Forming Conjugates with Poly(2-oxazoline)s                                                                  |
| 11:45 – 12:05                                            | PROF. JULIAN THIELE (Otto von Guericke University Magdeburg)<br>Additive Soft Matter Design by Hydrogel Particles as Building Blocks                                                                          |
| 12:05 – 12:35                                            | PROF. NICO BRUNS (TU Darmstadt) (Invited)<br>Enwrapping Biological Systems into Bioinspired Polymer Capsules: from Enzyme Nanoreactors to Self-Synthesizing Artificial Cells                                  |
| 12:35 – 14:00                                            | <b>LUNCH BREAK / Poster Viewing (Lunch provided at venue)</b>                                                                                                                                                 |
| <b>Afternoon Session 14:00 – 18:05(2:00 PM –6:05 PM)</b> |                                                                                                                                                                                                               |
|                                                          | <b>Session – VII</b><br>Chair: PROF. XINLIANG FENG                                                                                                                                                            |
| 14:00 – 14:30                                            | PROF. TANJA WEIL (MPI Mainz) (Invited)<br>Supramolecular Chemistry in Living Systems                                                                                                                          |
| 14:30 – 14:50                                            | PROF. HOLGER FREY (University Mainz)                                                                                                                                                                          |

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|                                            | Isomerizing Poly(ethylene glycol) (PEG) to “rPEG”: Amorphous and Non-Immunogenic Structures for Medical and Pharmaceutical Applications |
| 14:50 – 15:10                              | PROF. BELA IVAN (Research Centre for Natural Sciences, Hungarian Research Network)                                                      |
|                                            | Novel Nanostructured Amphiphilic Polymer Architectures as Nanocontainers and Intelligent Drug Carriers                                  |
| 15:10 – 15:30                              | DR. LEONID KABEROV (Friedrich Schiller University Jena)                                                                                 |
|                                            | 2-Oxazoline-Based Polyphotoacids – Multi-Stimuli-Responsive Copolymers for Targeted Drug Delivery                                       |
| <b>15:30 – 16:15</b>                       | <b>Coffee Break / Poster Viewing</b>                                                                                                    |
|                                            | <b>Session – VIII</b><br>Chair: PROF. PRASAD SHASTRI                                                                                    |
| 16:15 – 16:45                              | PROF. JOERG LAHANN (University of Michigan) (Invited)                                                                                   |
|                                            | Vapor-Based Polymers: Towards Chemical, Topological and Biological Control of Biointerfaces                                             |
| 16:45 – 17:05                              | DR. KEVIN NEUMANN (Radboud University)                                                                                                  |
|                                            | Stronger Together: Unexplored Polymeric Ylides Open a New Generation of Antifouling and Biofilm Preventing Materials                    |
| 17:05 – 17:25                              | DR. CHRISTIAN ROSSNER (IPF Dresden)                                                                                                     |
|                                            | Kinetically Controlled Site-Specific Self-Assembly of Brush-Coated Anisotropic Nanoparticles                                            |
| 17:25 – 17:45                              | DR. JENS GAITZSCH (Leibniz-Institut für Polymerforschung Dresden e.V.)                                                                  |
|                                            | Functional Polymers from Radical Ring-Opening Polymerisation by pH Responsiveness and Branches as Features                              |
| 17:45 – 17:55                              | WILEY POSTER PRIZE                                                                                                                      |
| 17:55 – 18:05                              | CLOSING REMARKS<br>PROF. LAURA HARTMANN (University of Freiburg)                                                                        |
| <b>-----End of Meeting-----</b>            |                                                                                                                                         |
| <b>Save the date</b>                       |                                                                                                                                         |
| <b>Makro 2025: 27.02.2025 – 28.02.2025</b> |                                                                                                                                         |