

**Minisymposium**

**Polymers in Material Science  
&  
Biomedical Applications**

**Johannes-Gutenberg University Mainz  
MPI for Polymer Research  
SFB1066  
Fraunhofer ICT-IMM**



**Date:** 03/13/2015

**Location:** MPI for Polymer Research  
*Hermann-Staudinger Lecture Hall*

**Ackermannweg 10  
D-55128 Mainz**

**Discussion Leader: Gerhard Wegner**

- 9:00 **Klaus Müllen**, MPI Polymer Research, Mainz  
Graphene as 2D-Polymer
- 9:30 **Dieter Schlüter**, ETH Zürich  
Synthetic 2D-Polymers
- 10:00 **Yongming Chen**, Sun Yat-Sen Univ., Guangzhou  
Molecular Bottlebrushes:  
Highly Efficient Synthesis and 2D-Assembly

**10:30 Coffee Break**

**Discussion Leader: Wolfgang Schärtl**

- 11:00 **Franziska Gröhn**, University Erlangen  
Functional and Switchable and Polyelectrolyte  
Assemblies in Solution
- 11:30 **Klaus Huber**, University Paderborn  
Coil Collapse and Precipitation of Polyelectrolyte -  
Metal Complexes in Dilute Solution – Law of Mass  
Action versus Stoichiometric Decoration of the Poly-  
anions as Driving Force
- 12:00 **Patrice Castignolles**, Western Sydney Univ.  
Capillary Electrophoresis of Polyelectrolytes

**12:30-14:00 Lunch**

**Discussion Leader: Walther Burchard**

- 14:00 **Chi Wu**, Chinese Univ. Hong Kong  
How Free Cationic Chains Promote Gene Transfection
- 14:30 **Michael Maskos**, Fraunhofer ICT-IMM, Mainz  
Characterization of Nanoparticles and Nanosized  
Assemblies in Solution: Full and Frank
- 15:00 **Stephan Förster**, Bayreuth University  
Watching Polymers Assemble In-situ

**15:30 Coffee Break**

**Discussion Leader: Hyuk Yu**

- 16:00 **Paul Russo**, Georgia Tech, Atlanta  
Coming Full Circle in Scattering from Solutions
- 16:30 **Ashutosh Chilkoti**, Duke University, Durham  
Genetically Engineered Peptide Polymers  
for Biomedical Applications
- 17:00 **Murrugappan Muthukumar**, UMASS, Amherst  
Charge, Diffusion and Mobility of Polyelectrolytes