CPIMA / MPI-P Forum on Interface Science

April 26 and 27 1999, MPI-P Mainz

Program

Monday, April 26

9:00 am  Prof. Wolfgang Knoll (MPI-P)
           Welcome

9:10 am  Prof. Curtis W. Frank (Director of CPIMA)
           Research at the Center on Polymer Interfaces and Macromolecular Assemblies (CPIMA)

Chairperson: Prof. Curtis W. Frank (CPIMA)

9:35 am  Ossi Prucker (MPI-P)
           Surface Attached Polymer Networks

10:00 am Larry Bailey (CPIMA)
           Adsorption of Perfluoropolyether Lubricant Molecules from Solution

10:25 am Coffee Break

10:55 am Heide Götz (MPI-P)
           Structure and Dynamics in Low Molecular Weight Siloxane Blends

11:20 am Christoph Spredler (MPI-P)
           Electrical recordings from rat cardiac myocytes using field-effect transistors

11:45 am Carlton Brooks (CPIMA)
           Surface Shear Rheology of a Monolayer Undergoing Polymerization

12:10 pm Lunch Break

Chair Person: Dr. Jürgen Rühe (MPI-P)

1:40 pm  Christoph Naumann (CPIMA)
           Viscoelastic Properties of Lipopolymers at the Air-Water Interface

2:05 pm  Ariane Mc Kiernan (CPIMA)
           Pattern Formation of Cationic Lipid Bilayers on Mica: A Fluorescence Microscopy Study

2:30 pm  Liqin Zhang (CPIMA)
           Single Lipid Bilayers Formed on Spherical Solid Surfaces

2:55 pm  Coffee Break

3:20 pm  Wil Shen (CPIMA)
           Swelling of Lipopolymers on Benzophenone-modified Substrates

3:45 pm  Marc Glazer (CPIMA)
           High Surface Area Substrates for DNA Arrays
4:10 pm  Ying-Chih Chang (CPIMA)
         Surface Polymerization of Poly(2-hydroxyethyl methacrylate) for High Density DNA Arrays

4:35 pm  Dev K. Kambhampati (MPIP)
         DNA Diagnostics Using Optical Methods

5:00 pm  Lab Tour

5:15 pm  **Special Seminar (in German):** Dr. Silvia Mittler-Neher
         Wellenleiter-Chemo-Sensoren mit Goldcladding
         {for those who do not want to attend the Lab Tour}

7:00 pm  Dinner

**Tuesday, April 27**

*Chair Person: Prof. Chris Klug (CPIMA)*

9:00 am  Prof. Kurt Kremer (Managing Director MPIP)
         The MPI of Polymer Research and its Research Activities

9:25 am  Renate Förch (MPIP)
         Thin Polymer Coatings by Pulsed Plasma Deposition

9:50 am  Christian Holm (MPIP)
         Computer Simulations of Polyelectrolytes

10:15 am Markus Biesalski (MPIP)
         Synthesis and Swelling Behavior of Neutral and Charged Polymer Brushes

10:40 am Coffee Break

11:10 am Manfred Wilhelm (MPIP)
         Fourier Transform Rheology

11:35 am Patrick Kampf (CPIMA)
         Mechanical Properties of Dendritic Amphiphiles at the Air-Water Interface: Probing the Temperature Dependence

12:00 am Nancy Lee (CPIMA)
         Vapor Polymerization of Polyglutamates: Process Modification and Surface Characterization

12:25 pm Rick Barto (CPIMA)
         Weak Optical Absorption Measurements in NLO Polymer Waveguide Films by Photothermal Desorption Spectroscopy

12:50 pm Lunch Break

2:30 pm  **Special seminar:** Prof. Olga Vinogradova (at present: Inst. of Physical Chemistry, Mainz)
         Hydrophobic Interaction: Slippage or Attractive Force
Chair Person: Prof. Wolfgang Knoll (MPIP)

4:00 pm Ralf Everaers (MPIP)
    Dynamic Fluctuations of Semi-flexible Filaments

4:25 pm Susan DePaul (MPIP)
    Interface Characterization of Self-organized Organic-Inorganic Hybrid Materials by Solid-State NMR

4:50 pm Prof. Chris Klug (CPIMA)
    Solid State NMR Investigations of Hard Disk Lubrication and Dendrimer Blends

5:15 pm Max Kreiter (MPIP)
    Applications of the Photothermal Beam Deflection Technique

7:00 pm Dinner