

Summer School: Biointerfaces and Surface Characterization

Thursday, September 17th, 2015; Takustrasse 3, Lecture Hall

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| 9.00 – 9.15 | Opening and Welcome (Rainer Haag, FU Berlin) |
| 9.15 – 10.15 | Jürgen Rühle, Universität Freiburg - IMTEK
“Engineered Biointerfaces: From Control of Cell Adhesion to New Bioanalytical Devices” |
| 10.15 – 11.15 | Axel Rosenhahn, Ruhr-Universität Bochum
“Analysis of biointerfaces by XPS and spectral ellipsometry” |
| 11.15 – 11.30 | Coffee Break |
| 11.30 – 12.30 | Kenichi Ataka, Freie Universität Berlin
“Structural and functional studies of membrane protein monolayers by Surface Enhanced Infrared Absorption Spectroscopy“ |
| 12.30 – 13.30 | Lunch |
| 13.30 – 14.30 | Christof Wöll, Karlsruher Institut für Technologie
“From SURMOFs to SURGELs: Fabrication, Characterization and Modification of Novel Framework-based Surface-grafted Gels for Biomedical Applications” |
| 14.30 – 15.30 | Fredrik Höök, Chalmers University of Technology, Gothenburg
“Quartz crystal microbalance with dissipation (QCM-D) monitoring and complementary surface-sensitive tools for the analysis of biointerfaces” |
| 15.30 – 16.00 | Coffee Break |
| 16.00 – 17.00 | Nico de Mol, Utrecht University
“SPR: principles and applications in molecular interaction studies” |
| 17.00 – 18.00 | Helge Ewers, Freie Universität Berlin
“Quantitative microscopy at membrane surfaces” |
| 18.00 – 19.00 | Dinner |

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| 9.00 – 10.00 | Andreas Römpp, Justus-Liebig-Universität Gießen
“MALDI Imaging with high resolution in mass and space” |
| 10.00 – 11.00 | Andreas Fery, Universität Bayreuth
“Characterizing interactions and mechanics of soft interfaces by AFM” |
| 11.00 – 11.15 | Coffee Break |
| 11.15 – 12.15 | Gerald Brezesinski, MPI-KGF Potsdam-Golm
“X-ray diffraction and X-ray fluorescence under grazing incidence – highly surface sensitive tools to characterize monolayers at liquid/air interfaces” |
| 12.15 – 13.15 | Lunch |
| 13.15 – 14.15 | Roland Steitz, Helmholtz-Zentrum Berlin
“Reflectivity and GISAS - scattering from interfaces” |
| 14.15 – 15.15 | Roland Netz, Freie Universität Berlin
“Computer simulations of hydration water at planar surfaces” |
| 15.15 – 15.30 | Closing Remarks (Rainer Haag, Freie Universität Berlin) |