

# Core Facility BioSupraMol

## Summer School: NMR Spectroscopy in Chemistry and Biochemistry



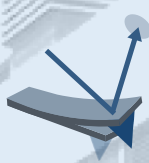
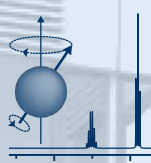
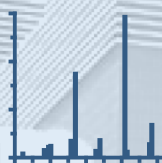
Summer School 2015

September 17-18, 2015  
Freie Universität Berlin

[www.biosupramol.de](http://www.biosupramol.de)

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

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|---------------|---|
| 09.00 – 09.15 | <b>Opening and Welcome (Rainer Haag, FU Berlin)</b>   |
| 09.15 – 10.15 | <b>Jürgen Rühle, Universität Freiburg - IMTEK</b><br>"Engineered Biointerfaces: From Control of Cell Adhesion to NewBioanalytical Devices"  |
| 10.15 – 11.15 | <b>Axel Rosenhahn, Ruhr-Universität Bochum</b><br>"Analysis of biointerfaces by XPS and spectral ellipsometry"  |
| 11.15 – 11.30 | <i>Coffee Break</i>   |
| 11.30 – 12.30 | <b>Kenichi Ataka, Freie Universität Berlin</b><br>"Structural and functional studies of membrane protein monolayers by Surface Enhanced Infrared Absorption Spectroscopy"   |
| 12.30 – 13.30 | <i>Lunch</i>  |
| 13.30 – 14.30 | <b>Christof Wöll, Karlsruher Institut für Technologie</b><br>"From SURMOFs to SURGELS: Fabrication, Characterization and Modification of Novel Framework-based Surface-grafted Gels for Biomedical Applications"    |
| 14.30 – 15.30 | <b>Fredrik Höök, Chalmers University of Technology, Gothenburg</b><br>"Quartz crystal microbalance with dissipation (QCM-D) monitoring and complementary surface-sensitive tools for the analysis of biointerfaces" |
| 15.30 – 16.00 | <i>Coffee Break</i>   |
| 16.00 – 17.00 | <b>Nico de Mol, Utrecht University</b><br>"SPR: principles and applications in molecular interaction studies"   |
| 17.00 – 18.00 | <b>Helge Ewers, Freie Universität Berlin</b><br>"Quantitative microscopy at membrane surfaces"  |
| 18.00 – 19.00 | <i>Dinner</i>   |



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**BioSupraMol**

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## Summer School: Biointerfaces and Surface Characterization



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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)**

### Venue:

**Institute for Chemistry and Biochemistry  
Freie Universität Berlin**

**Organic Chemistry  
Takustr. 3, 14195 Berlin, Germany, Lecture Hall**

### Contact

Lisa Hummel  
Institute for  
Chemistry and Biochemistry  
Freie Universität Berlin  
Takustr. 3, 14195 Berlin  
Germany

Phone: ++49 30 838-60287  
Fax: ++49 30 838-460287  
lisa.hummel@fu-berlin.de

