

# 'SPM for Life Sciences and Soft Matter Research'

## JOINT WORKSHOP

Friday 22<sup>nd</sup> March, University of Twente, ZH 286

- 13.30**                    **Introduction**  
Peter Schön
- 13.35-14.00**           **How AFM inspires medical diagnosis: just an example**  
Hans Oberleithner, Institute for Physiology II, University of Münster, Germany
- 14.00-14.25**           **Micromechanical bending and tensile testing of individual fibrils: from collagen to amyloid**  
Martin Bennink, Nanobiophysics group, University of Twente
- 14.25-14.50**           **Nanomechanics of alveolar cells and extracellular matrix**  
Daniel Navajas, University of Barcelona, Spain
- 14.50-15.15**           **Avidin-Biotin: a paradigm in Dynamic Force Spectroscopy**  
Jean-Luc Pellequer, CEA Marcoule, Bagnols sur Cèze, France
- 15.15-15.40**           **Unraveling and eliminating dissipation mechanisms in polymer brush friction**  
Sissi de Beer, Forschungszentrum Jülich, Germany
- 15.40-16.10**           **Coffee Break**
- 16.10-16.35**           **Ion adsorption at solid liquid Interfaces Probed by High Resolution AFM**  
Frieder Mugele, Physics of Complex Fluids, University of Twente
- 16.35-17.00**           **Functional SPM tips and other 3D-structures fabricated by corner lithography**  
Niels Tas, Transducer Science and Technology, University of Twente
- 17.00-17.25**           **Revisiting standard cellular assays using non-invasive scanning probe technique**  
Séverine Le Gac, BIOS group, University of Twente
- 17.25-17.50**           **Electrochemical Current-Sensing AFM: opportunities and challenges**  
Ilya V. Pobelov, Bern University, Switzerland
- 17.50-18.15**           **AFM as a tool in marine ecology**  
Vesna Svetličić, Institute Ruđer Bošković, Zagreb, Croatia
- Conclusion and Drinks**