

PosterAward 2008

Participants are invited to submit posters presenting their current research. A panel of judges consisting of selected invited speakers will award prizes to the authors of the top three posters.

Posters with the following topics are especially encouraged:

- SPM in biological or medical research
- Preparation techniques of biomaterials in SPM
- SPM instrumentation for life science application
- Comparison and integration of SPM with other imaging techniques
- Nanomanipulation and force spectroscopy on the nanoscale

PosterAward 2008

The abstracts should not exceed one DIN A4 page (Times New Roman, 12pt, MS Word file). Authors may submit their abstracts by email to info@nanobioviews.net by **15 September 2008**.

The abstracts will be published in the conference booklet and will be available as secured PDF files on the NanoBioVIEWS™ website: www.nanobioviews.net.

For abstracts and information of the meetings 2002 to 2007, visit the previous workshop website: www.spm-workshop.jpk.com.

REGISTRATION

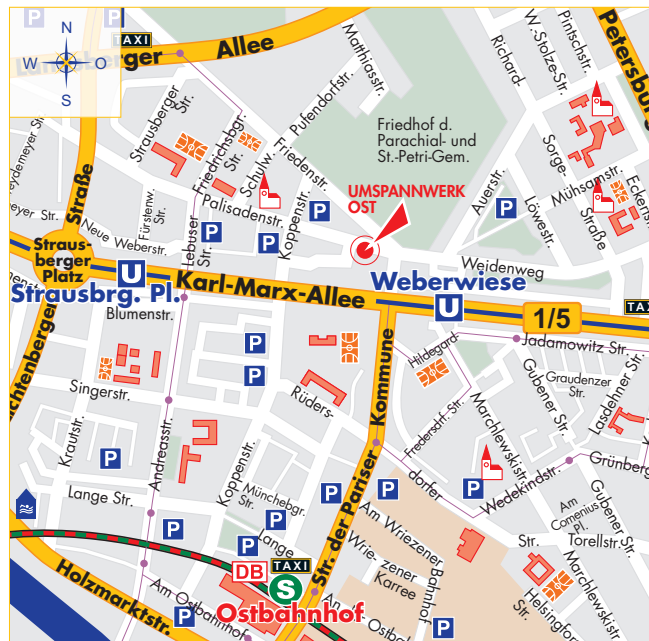
Registration fee*	350 €/250 € students**
Early bird special*	300 €/200 € students** until 22 August 2008
Poster presenters*	10 % discount
Deadline for registration	26 September 2008

*incl. VAT **including abstracts booklet, lunch and beverages during breaks and conference dinner on 8 October

Please register online at www.nanobioviews.net

Location

UMSPANNWERK OST • Palisadenstrasse 48 • 10243 Berlin



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A forum for applications in scanning probe microscopy and related technologies in life sciences

SPM

IN LIFE SCIENCES

ANNOUNCEMENT

8-9 OCTOBER 2008

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SPM IN LIFE SCIENCES

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NanoBioVIEWS™

NanoBioVIEWS™ is the name of a new series of international meetings initiated by JPK Instruments to further the scientific knowledge exchange on instrumentation and applications of nanotechnology in the life sciences.

Scope of the Symposium

The 7th meeting has been extended to a two-day program to meet the increased demand of the audience and will be held in Berlin as part of the NanoBioVIEWS™ series. It will cover applications of scanning probe microscopy (SPM) to areas including biochemical and medical research.

This event is regarded as a leading meeting for the life sciences SPM community. In 2007, more than 100 scientists from around the world met to discuss their research and share knowledge with their peers.

Visit also the previous workshop website www.spm-workshop.jpk.com to get more information, abstracts and impressions of the meetings 2002 to 2007.

Leaders in the field together with novices are encouraged to learn from one another, discuss the presentations and share their experiences.

PROGRAM | 8 OCTOBER 2008

08:00 am Registration

09:00 am Opening

1ST SESSION Cell Mechanics

09:10 am Challenges and Approaches – Probing Tumor Cell Invasion at a Nanoscale
Dr. Thomas Ludwig (DKFZ Heidelberg, DE)

09:50 am Mechanical Assessment of Living Cells
Dr. Fodil Redouane (INSERM UMR Creteil, FR)

10:30 am Coffee Break

11:10 am Dynamics of the Leukocyte Surface
Prof. Pierre Bongrand (INSERM CNRS Marseille, FR)

11:50 am Soft Mechanical Programs in the World of Living Cells
Dr. Andrew Pelling (University of Ottawa, CA)

12:30 pm Lunch Break

2ND SESSION AFM and Advanced Optics

02:00 pm Overlay for Membrane-Bound Protein Biochips
Dr. Jérôme Chalmeau (LAAS CNRS, FR)

02:40 pm Force Mapping of Membrane Proteins and Glycoprotein Epitopes
Dr. Terry McMaster (University of Bristol, GB)

03:20 pm Coffee Break

04:00 pm Tip-Enhanced Raman Spectroscopy – Bio-Molecule Identification on the Nanometer Scale
Dr. Volker Deckert (ISAS Dortmund, DE)

04:40 pm Poster Session

06:30 pm End

08:00 pm Conference Dinner at the Umspannwerk Ost Theatre

Please visit www.nanobioviews.net for the abstracts.

PROGRAM | 9 OCTOBER 2008

3RD SESSION Single Molecules

09:00 am Pulling Proteins from the Cell Surface with AFM
Prof. Atsushi Ikai (Tokyo Institute of Technology, JP)

09:40 am Dendron-Modified AFM Tips for Sensing DNA and Proteins and Mapping m-RNA
Prof. Joon Won Park (Pohang University, KR)

10:20 am Coffee Break and Poster Session

11:00 am AFM Force Spectroscopy: A Novel Tool for the Study of Protein Misfolding Diseases
Prof. Yuri Lyubchenko (University Nebraska, US)

11:40 am Force-Clamp Spectroscopy of Single Proteins with the AFM
Prof. Julio Fernandez (Columbia University, US)

12:20 pm Lunch Break

02:00 pm New Insights of the HIV-Neutralizing 2F5 Monoclonal Antibody Through Dynamic Force Spectroscopy
Prof. Phil Williams (University of Nottingham, GB)

4TH SESSION New Methods in AFM

02:40 pm Bacterial Adhesion Structures Visualised by Combined Atomic Force- and Fluorescence Microscopy
Dr. Rikke Louise Meyer (Aarhus University, DK)

03:20 pm Coffee Break and Poster Session

04:00 pm The Structure and Function of Pulmonary Surfactant. Atomic Force Microscopy and Kelvin Probe Force Microscopy Study
Prof. Zoya Leonenko (University of Waterloo, CA)

04:40 pm Using Nanomechanics to Explore Biological Function
Prof. Suzi Jarvis (University College Dublin, IE)

05:20 pm Poster Award and Closing

05:40 pm End