

Contact

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REGISTRATION

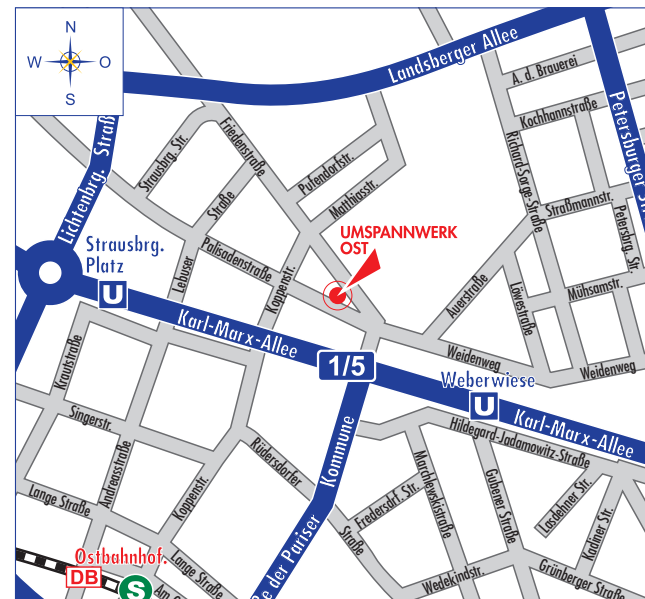
Fee for both days¹⁾	350,- € / 250,- € (students) ^{2,3)}
Fee for one day¹⁾	150,- € / 100,- € (students) ²⁾
Early Bird Special¹⁾ <small>(only when applied for both days)</small>	275,- € / 175,- € (students) ²⁾ until 31 August 2009
Poster presenters	10 % discount
Poster abstract submission	30 September 2009
Deadline for registration	30 September 2009

1) all prices including VAT
 2) including abstracts booklet, lunch and beverages during the breaks
 3) including the conference dinner on October 14th

Please register online at www.nanobioviews.net

Location

UMSPANNWERK OST • Palisadenstrasse 48 • 10243 Berlin



JPK Instruments AG
 Bouchéstrasse 12
 12435 Berlin, Germany
www.jpk.com

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PosterAward 2009

Participants are invited to present posters about their current research. The SPM poster session takes place on Wednesday, 14th October, the OPTICAL TWEEZERS poster session on Thursday, 15th October. On both days a panel of judges made up of the invited speakers will award prizes to the authors of the top three posters.

Posters with the following topics are especially encouraged:

Scanning Probe Microscopy • 14 October 2009

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

Optical Tweezers • 15 October 2009

- Optical Tweezers instrumentation and related technologies for life science applications
- Using Optical Tweezers in biophysical and biological research

PosterAward
2009

The abstracts should not exceed one DIN A4 page (Times New Roman, 12 pt, MS Word file). Authors may submit their abstracts by email to info@nanobioviews.net by 30 September 2009.

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 SPM meetings 2002 to 2007, visit the previous workshop website: www.spm-workshop.jpk.com.

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JOINT MEETING 2009



A forum for applications of optical tweezers and related technologies in life sciences



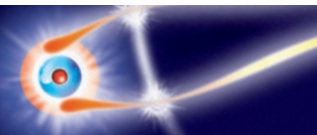
A forum for applications in scanning probe microscopy and related technologies in life sciences

ANNOUNCEMENT

14-15 OCTOBER 2009

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UMSPANNWERK OST
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 10243 Berlin, Germany



ANNOUNCEMENT

PROGRAM | 14 OCTOBER 2009

PROGRAM | 15 OCTOBER 2009

SPM IN LIFE SCIENCES

8TH international symposium

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

OPTICAL TWEEZERS IN LIFE SCIENCES

2ND international symposium

A forum for applications of optical tweezers and related technologies in life sciences

14-15 OCTOBER 2009, Berlin • Germany

UMSPANNWERK OST • Palisadenstrasse 48 • 10243 Berlin

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 Joint Meeting

The event covers the applications of scanning probe microscopy (SPM) and optical tweezers technology to areas including biophysical, biochemical and medical research. Leaders in the field together with novices are encouraged to learn from each other, discuss the presentations and share their experiences.

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

- 09:00 am Registration
- 10:00 am Opening
- 10:10 am A Workbench for Functional Macromolecules and Their Complexes
Prof. Jürgen P. Rabe (Humboldt University at Berlin, DE)
- 10:40 am From Elasticity Maps of Infarcts and Stem Cells to Orthogonality in AFM-TIRF Images of Myosin
Prof. Dennis E. Discher (University of Pennsylvania, USA)
- 11:10 am Coffee Break
- 11:40 am What You Can Learn From Force Spectroscopy on a Tetrameric Ion Channel
Patrick Bosshart (Basel University, CH)
- 12:10 pm Cell Mechanics From DNA Conformational Dynamics to Lipid Membrane Mechanical Properties
Dr. Sonia Antoranz Contera (Oxford University, GB)
- 12:40 pm Biomolecular and Cellular Imaging With AFM
Dr. Neil H. Thomson (University of Leeds, GB)
- 01:10 pm Lunch Break
- 02:30 pm Force Probing the Molecular Mechanics of Cell Rounding
Prof. Daniel J. Müller (TU Dresden, DE)
- 03:10 pm Force Spectroscopy on Single Molecules and on Single Cells
Prof. Deborah E. Leckband (University of Illinois, USA)
- 03:40 pm Coffee Break
- 04:20 pm The Combination of AFM With Advanced Light Microscopy – From Liquids to Cells
Dr. Chris Wright (Swansea University, GB)
- 04:50 pm Exploring the Nano-Mechanical Structure of Viral Capsids Using Force Spectroscopy
Dr. Gijs J.L. Wuite (VU University Amsterdam, NL)
- 05:20 pm Poster Session
- 07:30 pm End
- 08:00 pm Dinner Umspannwerk & SPM Poster Award

- 09:00 am How to Get an AFM Tip Into a Living Cell?
Prof. J.K. Heinrich Hörber (University of Bristol, GB)
- 09:40 am Confined Brownian Motion Studied by Optical Trapping Interferometry
Dr. Sylvia Jeney (EPFL, Lausanne, CH)
- 10:10 am Coffee Break
- 10:40 am Controlling DNA in a Nanopore by Optical Tweezers
Dr. Ulrich F. Keyser (University of Cambridge, GB)
- 11:10 am Non-Processive Molecular Motors on a Leash: A Novel Single-Molecule, Microsecond Resolution Force Clamp
Dr. Marco Capitanio (LENS, Florence, IT)
- 11:40 am Probing Single Biosystem Dynamics using Optical Tweezers and Spectroscopy
Dr. Satish Rao (ICFO, Barcelona, ES)
- 12:10 pm Lunch Break and Poster Session
- 02:30 pm Tracking the Idiosyncratic Steps of Kinesin Family Members with Optical Tweezers
Prof. Christoph F. Schmidt (University of Göttingen, DE)
- 03:10 pm Novel Light Field Shaping for Optical Manipulation
Prof. Kishan Dholakia (University of St. Andrews, GB)
- 03:40 pm Coffee Break
- 04:20 pm Controlling Biological Molecular Motors in Living Cells
Prof. Berenike Maier (University of Münster, DE)
- 04:50 pm Unravelling the Organization of Chromatin
Dr. Remus Th. Dame (Leiden University, NL)
- 05:20 pm Optical Tweezers Poster Award and Closing

Please visit www.nanobioviews.net for the abstracts.