

Contact

Petra Dammermann
 JPK Instruments AG
 Tel.: +49 30 5331 12070
 Fax: +49 30 5331 22555
 info@nanobioviews.net

REGISTRATION

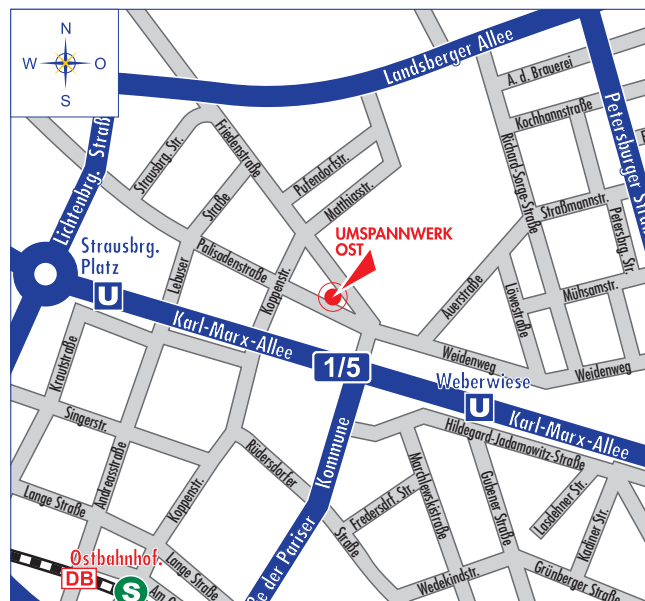
Fee for both days¹⁾	350,- € / 250,- € (students) ^{2,3)}
Fee for one day¹⁾	150,- € / 100,- € (students) ²⁾
Early Bird Special¹⁾ <small>(only when applied for both days)</small>	275,- € / 175,- € (students) ²⁾ until 3 September 2010
Poster presenters	10 % discount
Poster abstract submission	22 September 2010
Deadline for registration	22 September 2010

1) all prices including VAT
 2) including abstracts booklet, lunch and beverages during the breaks
 3) including the conference dinner on October 6th

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

powered by
JPK
 Instruments

PosterAward 2010

Participants are invited to present posters about their current research. The SPM poster session takes place on Wednesday, 6th October, the OPTICAL TWEEZERS poster session on Thursday, 7th 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 • 6 October 2010

- 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 • 7 October 2010

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

PosterAward
2010

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 22 September 2010.

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.

powered by
JPK
 Instruments

JOINT MEETING 2010



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

6-7 OCTOBER 2010

UMSPANNWERK OST
 Palisadenstrasse 48
 10243 Berlin, Germany

powered by
JPK
 Instruments



ANNOUNCEMENT

**9TH INTERNATIONAL SYMPOSIUM
ON SCANNING PROBE MICROSCOPY &
OPTICAL TWEEZERS IN LIFE SCIENCES**

JOINT MEETING 2010 – A forum for applications in scanning probe and optical tweezers technologies in life sciences

6-7 OCTOBER 2010, Berlin • Germany

UMSPANNWERK OST • Palisadenstrasse 48 • 10243 Berlin

NanoBioVIEWS™

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

The NanoBioVIEWS™ meetings create an environment to discuss current developments and to generate new ideas.

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 www.nanobioviews.net and also the previous SPM workshop website www.spm-workshop.jpk.com to get information, abstracts and impressions of the meetings 2002 to 2009.

PROGRAM | 6 OCTOBER 2010

- 09:00 am Registration
 10:00 am Opening
 10:10 am Combining AFM and microinterferometry – a novel tool to assess the mechanics of soft biomolecular films
Prof. Ralf Richter (CIC biomaGUNE, ES)
 10:40 am Protein folding and unfolding dynamics probed by single molecule atomic force microscopy
Prof. Hongbin Li (University of British Columbia, CA)
 11:10 am Coffee Break
 11:40 am Investigation of cellular mechanics by atomic force microscopy
Prof. Manfred Radmacher (University of Bremen, DE)
 12:10 pm Mechanical properties of biomaterials
Dr. José L. Toca-Herrera (CIC biomaGUNE, ES)
 12:40 pm Model membranes as a tool to investigate the mechanisms of protein cytotoxicity. Different AFM approaches.
Dr. Claudio Canale (Italian Institute of Technology, IT)
 01:10 pm Lunch Break
 02:30 pm Investigating phase transitions in reconstituted lipid bilayers by AFM
Dr. Paolo Facci (University of Modena, IT)
 03:10 pm High speed AFM imaging of amyloid fibrils elongation
Dr. Pierre-Emmanuel Milhiet (Centre de Biochimie Structurale Montpellier, FR)
 03:40 pm Coffee Break
 04:20 pm Artificial atoms and antennas
Prof. Hans Jürgen Eisler (University of Karlsruhe, DE)
 04:50 pm Where are the domains in ferroelectric polymers? A PFM answer to an old question.
Dr. Markus Geuss (Adolphe Merkle Institute, CH)
 05:20 pm Poster Session
 07:30 pm End
 08:00 pm Dinner Umspannwerk & SPM Poster Award

PROGRAM | 7 OCTOBER 2010

- 09:00 am The Optical Stretcher – A new perspective in cancer research?
Prof. Josef Alfons Käs (Leipzig University, DE)
 09:40 am Mechanical stabilisation of an essential subdomain of the ribosome
Prof. Ulrich Bockelmann (ESPCI Paris, FR)
 10:10 am Coffee Break
 10:40 am Displacing the cell nucleus by optical tweezers
Prof. Iva Tolic-Norrelykke (MPI Dresden, DE)
 11:10 am Trapping and analysing airborne particles with optical tweezers
Dr. David McGloin (University of Dundee, GB)
 11:40 am Visualization of human RAD51 nucleoprotein filament dynamics on individual DNA molecules
Dr. Mauro Modesti (CNRS Marseille, FR)
 12:10 pm Lunch Break & Poster Session
 02:30 pm Unraveling the secrets of adhesion organelles and adhesion of piliated bacteria using force measuring optical tweezers
Prof. Ove Axner (University of Umea, SE)
 03:10 pm High-speed manipulation & imaging in holographic optical tweezers
Dr. Graham Gibson (University of Glasgow, GB)
 03:40 pm Coffee Break
 04:20 pm Single molecule studies of eukaryotic transcription
Prof. Jens Michaelis (LMU München, DE)
 04:50 pm The working stroke of myosins and dyneins. What can we learn from optical trapping and what do we need for future experiments.
Prof. med. Bernhard Brenner (Hannover Medical School, DE)
 05:20 pm Optical Tweezers Poster Award & Closing

Please visit www.nanobioviews.net for more information.