

6th International Workshop – 9 October 2007 Scanning Probe Microscopy in Life Sciences

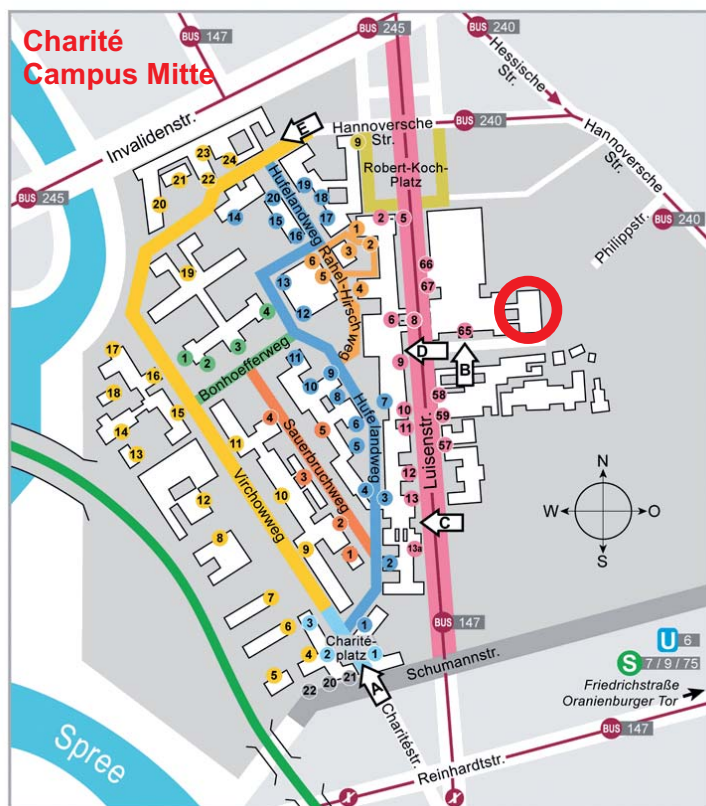
Registration fee*: 90 Euro / 45 Euro (students)
 Poster presenters: 60 Euro / 30 Euro (students)
 * incl. VAT / MwSt
 Early registration discount: 10%, until 28 August 2007

**Deadline for registration
and registration fee receipt: 25 September 2007**

Registration form online at: www.spm-workshop.jpk.com

Workshop location

Charité Campus Mitte, Luisenstr. 65
 Hörsaal Neubau am Betten-Hochhaus / Lecture hall in tower ward annex
 Schumannstr. 20/21
 10117 Berlin, Germany



Workshop office

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6th International Workshop – 9 October 2007 in Berlin

Scanning Probe Microscopy in Life Sciences



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Scanning Probe Microscopy in Life Sciences

Organizing Committee

Dr. Andreas Jordan – Center of Biomedical Nanotechnology & Dpt. of Radiation Oncology/CVK, Charité, University Medicine, Berlin
 Torsten Jähnke – JPK Instruments AG, Berlin

- 9:00 am **Opening**
 Dr. Andreas Jordan – Charité, University Medicine Berlin
- 9:10 am **Forces and Dynamics in Cell Adhesion - a Molecular Perspective**
 Prof. Dr. Andreas Janshoff – Biophysical Chemistry Group, Johannes Gutenberg University of Mainz, Germany
- 9:50 am **Molecularly Resolved Bioelectrochemistry & Probe Directed Molecular Coupling**
 Dr. Jason Davis – Department of Chemistry, Central Research Laboratory, University of Oxford, United Kingdom
- 10:30 am *Coffee break and poster session*
- 11:00 am **Combined Atomic Force and Fluorescence Microscopy of Bioleaching/Biocorrosion Biofilms**
 Prof. Dr. Wolfgang Sand – Department of Chemistry, Biofilm Centre, University of Duisburg-Essen, Germany
- 11:40 am **Nano-Domain Organization of Plasma Membrane Proteins and Their Association to Lipid Rafts Studied With NSOM**
 Prof. Dr. Maria Garcia-Parajo – BioNanophotonics, IBEC - Catalanian Institute for Bioengineering, PCB, Spain
- 12:20 pm *Lunch and poster session*
- 2:00 pm **High-Speed AFM for Visualizing Biomolecular Processes**
 Prof. Dr. Toshio Ando – Department of Physics, Biophysics Lab, Kanazawa University, Japan
- 2:40 pm **AFM as a Tool to Probe the Mechanics and Kinetics of Integrins on Living Cells**
 Dr. Kay-Eberhart Gottschalk – Biophysics and Molecular Materials, Ludwig Maximilians University of Munich, Germany
- 3:20 pm *Coffee break and poster session*
- 4:00 pm **Unraveling Biological Processes at the Nanometer Scale**
 Dr. Alfredo Franco-Obregón – Laboratory of Biosensors and Bioelectronics, ETH Zürich, Switzerland
- 4:40 pm **Poster Award and Closing**
 Torsten Jähnke – JPK Instruments AG, Berlin

Please visit www.spm-workshop.jpk.com for the abstracts.

Invitation and ...

JPK Instruments and the Charité will hold the 6th international workshop "Scanning Probe Microscopy in Life Sciences" in Berlin. Continuously growing over the recent years, we expect more than 100 scientists to attend the meeting to hear about recent developments in the application of Scanning Probe Technology in interdisciplinary research fields presented by our international speakers.

The workshop will be accompanied by a poster session and the presentation of JPK's NanoWizard®II BioAFM.

Experts as well as beginners and students are welcome to learn from each other, discuss the posters, and share their experiences.

... Call for Posters

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As always, participants are invited to present posters about their current research. The jury of the speakers will select the top three posters and will award the presenters.

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 applications
- Comparison and integration of SPM with other imaging techniques
- Nano-manipulation and force spectroscopy on the nano-scale

The abstracts should not exceed one DIN A4 page (Times New Roman, 12pt, MS Word file) and should be submitted electronically to workshop@jpk.com until **25 September 2007**.

They will be published in the workshop booklet distributed on site during the workshop and will be available as secured PDF-files for download from the workshop web site.

