

# **First workshop on Hard X-ray Micro/Nano probe at PETRA III**

**Tuesday 22 January 2008 - Wednesday 23 January 2008**

**DESY, Notkestr. 85, 22607 Hamburg**

## **Programme**

## Table of contents

Tuesday 22 January 2008	3
Registration	3
Session Introduction to PETRA III	3
Brief outline of beamline concept and bounding conditions	3
Coffee break	3
Session on third generation SR applications I	3
Lunch break	3
Session on third generation SR applications II	3
Coffee break	3
Discussion about suitable characteristics of a mico/nanoprobe beamline	3
Dinner	3
Wednesday 23 January 2008	4
Session on beamline technology I	4
Coffee break	4
Session on beamline technology II	4
Lunch	4
Session on beamline concept	4
Discussion	4

## Tuesday 22 January 2008

**Registration - 109, bldg. 25b (08:45-09:00)**

## Tuesday 22 January 2008

**Session Introduction to PETRA III - 109, bldg. 25b (09:00-09:30)**

time	title	presenter
09:00	Introduction to PETRA III (00h30')	FRANZ, Hermann

## Tuesday 22 January 2008

**Brief outline of beamline concept and bounding conditions - 109, bldg. 25b (09:30-10:30)**

time	title	presenter
09:30	Beamline concept (00h30')	FALKENBERG, Gerald
10:00	Cryo-Cooled High-Heatload Monochromator for Petra III (00h30')	SCHULTE-SCHREPPING, Horst

**Coffee break - 109, bldg. 25b (10:30-11:00)**

## Tuesday 22 January 2008

**Session on third generation SR applications I - 109, bldg. 25b (11:00-12:30)**

time	title	presenter
11:00	Analysing materials at different length scales (00h30')	JANSSENS, Koen
11:30	Non-destructive 3-dimensional synchrotron-XRF trace element measurements of down to the nanoscale (00h30')	BRENKER, Frank
12:00	Probing biomedical tissues - a challenge for analysis and sample preparation (00h30')	SCHROEDER, Walter

**Lunch break - DESY canteen (12:30-14:00)**

## Tuesday 22 January 2008

**Session on third generation SR applications II - 109, bldg. 25b (14:00-15:30)**

time	title	presenter
14:00	Microscopy and Spectroscopy with Electrons: Current State of the Art and possible links to the X-ray Nanoprobe (00h30')	MAYER, Joachim
14:30	Spatially resolved XRF and XAFS investigations of Earth materials (00h30')	WILKE, Max
15:00	Spatially resolved investigations related to nuclear waste disposal (00h30')	DENECKE, Melissa

**Coffee break - 109, bldg. 25b (15:30-16:00)**

## Tuesday 22 January 2008

**Discussion about suitable characteristics of a mico/nanoprobe beamline - 109, bldg. 25b (16:00-17:30)**

**Dinner - 109, bldg. 25b (19:00-21:00)**

## Wednesday 23 January 2008

### Session on beamline technology I - 109, bldg. 25b (09:00-10:30)

time	title	presenter
09:00	Instrumentation for X-Ray Nano-Diffraction Experiments: Experience and Concepts at the ESRF Microfocus Beamline (00h30')	BURGHAMMER, Manfred
09:30	microXAS Beamline Project: Beauty or Beast? (00h30')	GROLIMUND, Daniel
10:00	X-ray Microscopy at the Nanoscale: Optics, Instrumentation and Applications (00h30')	MASER, Joerg

### Coffee break - 109, bldg. 25b (10:30-11:00)

## Wednesday 23 January 2008

### Session on beamline technology II - 109, bldg. 25b (11:00-13:00)

time	title	presenter
11:00	Hard X-ray imaging of biomaterials and cells: fluorescence, diffraction and phase contrast (00h30')	SALDITT, Tim
11:30	Diffraction x-ray optics for the Micro/Nano-Probe at PETRA III (00h30')	DAVID, Christian
12:00	KB System for micro-focusing (00h30')	RICHAUD, Raphael
12:30	Turnkey micro- and nanofocusing optics and microscopy systems (00h30')	FESER, Michael

### Lunch - DESY Canteen (13:00-14:30)

## Wednesday 23 January 2008

### Session on beamline concept - 109, bldg. 25b (14:30-15:30)

time	title	presenter
14:30	(00h30')	FALKENBERG, Gerald
15:00	(00h30')	SCHROER, Christian

## Wednesday 23 January 2008

### Discussion - 109, bldg. 25b (15:30-17:00)