

# Workshop on the Coupling of Synchrotron Radiation IR and X-rays with Tip based Scanning Probe Microscopies

16 - 18 November 2005  
Venue: ESRF Auditorium

Wednesday, 16 November 2005  
14:00 - 17:00

13:00 - 14:00 Registration

Introduction: Motivation of the workshop

F Comin - ESRF - Grenoble  
- France

## *Photon detection*

Element-Specific Contrast in Local Probe Microscopy via X-Ray Spectroscopy: Present Status and Future Perspectives

J Purans - ISSP - Riga -  
Latvia

Scanning  $\mu$ -x ray excited luminescence in semiconductors

G Martinez-Criado - ESRF -  
Grenoble - France

15:30 *Coffee break on the mezzanine*

16:00 First Attempt to Use Conductive AFM for chemical nanocharacterizing

V Sammelselg - University  
of Tartu - Estonia

General discussion

18:00 Wine and cheese on the mezzanine

Thursday, 17 November 2005  
09:00 - 17:00

## *Electron detection*

09:00 Combination of Atomic Force Microscopy and X ray beam :  
experimental set up and objectives

J Chevrier - UJF LEPES -  
Grenoble - France

Towards Charge and Photon Imaging of Nanostructures Using X-  
UV Pumped Scanning Probe

B Hamilton - School of  
Electrical Engineering and  
Electronics - Manchester -  
UK

10:30 *Coffee break on the mezzanine*

11:00 Coupling of Scanning Tunneling Microscope with Hard X-ray Micro-  
Beam from 27m Long Undulator at SPring-8

A Saito - Osaka University  
& RIKEN/SPring8 - Osaka -  
Japan

Combination of Scanning Probe Microscope and X-rays for  
Detection of Electrons

O Dhez - OGG, INFM/CNR -  
Grenoble - France

12:00 - 14:00 *Lunch in the ESRF restaurant on site*

## *Instrumentation development and related issues*

# Workshop on the Coupling of Synchrotron Radiation IR and X-rays with Tip based Scanning Probe Microscopies

16 - 18 November 2005

Venue: ESRF Auditorium

14:00	Simultaneous resistance and capacitance cartography by conducting probe atomic force microscopy in contact mode	P Chrétien - Laboratoire de génie électrique de Paris - Paris - France
	Towards Soft X-ray Scanning Microscopy Using Tapered Capillaries & Laser-Based High-Harmonic Sources	W S Brocklesby - Optoelectronics Research Centre - Southampton University - UK
15:00	<i>Coffee break on the mezzanine</i>	
15:30	X-TIP: Development of Laboratory Setup for X-Ray/AFM Experiments	A Kuzmin - Institute of Solid State Physics - Riga - Latvia
	Magneto-optical Scanning Near-field Microscopy	L M Alvarez-Prado - Departamento de Fisica - Oviedo - Spain
	General discussion	
18:00	Poster session with drinks	
19:30	Bus departure for the restaurant	
20:00	Workshop dinner	

Friday, 18 November 2005  
09:00 - 12:00

## IR-SNOM

09:00	Near-Field Scanning Optical Microscopy: a Brief Overview	S Huant - UJF Grenoble & CNRS - Grenoble - France
	Chemically Resolved Imaging of Biological Cells and Thin Films by Free Electron Laser Infrared Scanning Near-Field Optical Microscopy	A Cricenti - ISM-CNR - Rome - Italy
10:30	<i>Coffee break on the mezzanine</i>	
11:00	From apertureless near-field optical microscopy to infrared near-field night vision	Y DeWilde - ESPCI - Paris - France
	Title to be confirmed	J Susini - ESRF - Grenoble - France
	General discussion	

*End of the workshop*