WIRMS 2011 AGENDA

6th International Workshop on Infrared Microscopy and Spectroscopy with accelerator based Sources

> TRIESTE, ITALY 4-8 SEPTEMBER 2011

Monday, September 5

	OPENINGS	
9.00	Stefano Lupi	
	Chair	
9.10	Alfonso Franciosi	
	ELETTRA CEO	

	FACILITIES
	Chair: Stefano Lupi
9.30	Paolo Calvani
	A survey of the Italian activity in the infrared spectroscopy with electron-beam sources
10.00	Gianfelice Cinque
	The Infrared Microspectroscopy beamline at Diamond: first performances and
	experimental results
10.20	Tor Pedersen
	Research Highlights from the Mid IR Beamline at the Canadian Light Source
10.40	Ralph Müller
	Status of the IR and THz activities at the Metrology Light Source

11.00	COFFEE BREAK Sponsored by
	BRUKER

	MICRO-SPECTROSCOPY I
	Chair: Maya Kiskinova
11.30	Peter Gardner Synchrotron based infrared spectroscopy for drug-cell interactions at the single cell level
12.00	Ljiljana Puskar Synchrotron FTIT and XFM analysis of paint cross sections from an 18 th century iconostatis
12.20	Krzysztof Banas Multivariate statistical analysis on FTIR spectra as a tool for the extraction of hidden information in the investigation of atherosclerotic plague in mice
12.40	Marjana Regvar New insights in metal hyperaccumulation of Thlapsi praecox using correlative SR FTIR and LEXRF analysis at ELETTRA

13.00	LUNCH
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	TIME-RESOLVED SPECTROSCOPIES
	Chair: Ulrich Schade
14.30	Andrea Cavalleri
	Nonlinear THz optics in High-Tc Superconductors
15.00	Shin-ichi Kimura
	Terahertz-Pump Photoemission Probe Spectroscopy (TP ³ S) Beamline at UVSOR-
	II
15.20	G. Lawrence Carr
	Characteristics of Coherent THz pulses from Linac-based Sources and
	Applications in Material Dynamics
15.50	Daniele Nicoletti
	Mode-selective vibrational control of "Mottness" in a one-dimensional organic
	conductor
16.10	David B. Tanner
	Photons and magnetic fields: The use of synchrotron sources to study
	pairbreaking in superconductors

16.30	COFFEE BREAK Sponsored by
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	EXTREME CONDITIONS
	Chair: Shin-Ichi Kimura
17.00	Hidekazu Okamura
	High pressure infrared studies of strongly correlated electron materials
17.30	Carlo Marini
	A combined Raman and Infrared investigation of the Insulator to Metal
	<i>Transition in</i> $NiS_{2-x}Se_x$ <i>compounds</i>
17.50	Leonetta Baldassarre
	<i>Optical properties of BaFe</i> ₂ <i>As</i> ₂ <i>under pressure at low temperature</i>

18.30	POSTER SESSION I AND VENDOR EXHIBITION
	BRUKER TYDEX®
	alectra Ospiricon nea se the nanoworld OPHIR Photonics Group

Tuesday, September 6

	CONDENSED MATTER
	Chair: Paolo Calvani
9.00	Christian Bernhard Infrared ellispometry studies on complex oxides and multilayers thereof
9.30	Alexander BorisControl of electron flow and magnetism in atomically thin transition metal oxides
9.50	Michael Martin Graphene Studies via SR-FTIR: Dirac Fermions, Phonon-Exciton Interactions, Quantum Pathways, and Plasmonics
10.20	Leonardo Degiorgi Anisotropic charge dynamics in detwinned $Ba(Fe_{1-x}Co_x)_2As_2$

10.40	COFFEE BREAK Sponsored by

	NEAR-FIELD
	Chair: Andrea Perucchi
11.10	Stephan Winnerl Near-field spectroscopy on semiconductor micro- and nanostructures at FELBE
11.40	Fritz Keilmann Near-field mid-infrared broadband nanoscopy
12.00	Erik Bründermann Chemical Nanoscope at ANKA-IR2: Detection Schemes
12.20	Yuka Ikemoto Scattering-type near-field optical microscopy by infrared synchrotron radiation source
12.40	Diedrich A. Schmidt ANKA-IR2 Far- and Near-field Combined Microscope and Applications

13.00	LUNCH

BRUKER	SPONSORED TALK
14.30	Diego Sali Vacuum FT-IR spectrometer: Research Tool at IR Beamlines of electron Synchrotrons

	MICRO-SPECTROSCOPY II
	Chair: Peter Gardner
14.50	Hoi-Ying N. Holman Label-free monitoring of chemical reaction dynamics in cells during stress- adaptive response
15.20	Giovanni Birarda Microfluidic Devices for Living Cell Measurements using Synchrotron Radiation Infrared Microspectroscopy
15.40	Lisa Vaccari Single living cell analysis by SR-IRMS, advantages, disadvantages and future perspectives
16.00	Mark TobinCellular and sub-cellular FTIR spectroscopy of cell signaling and migration by transmission and dual-element ATR microscopy

16.20

COFFEE BREAK

	SPONSORED TALK
16.50	Grigory I. Kropotov
	TYDEX: Optics for THz Photonics

	MICRO-SPECTROSCOPY III
	Chair: Lisa Vaccari
17.10	Mariangela Cestelli Guidi
	ATR-FTIR synchrotron real-time imaging of living cells: a new approach
17.30	Mark Frogley Optical standing wave and scattering artifacts in transflectance FTIR microspectroscopy of biological materials
17.50	Per Uvdal Microspectroscopic evidence of 70 million years old bone proteins



Wednesday, September 7

	IMAGING
	Chair: Mariangela Cestelli Guidi
9.00	Michael Nasse
	High-resolution Infrared Chemical Imaging with Multiple Synchrotron Beams
9.30	Sasa Bajt
	Searching for Extraterrestrial Organics in STARDUST Aerogel
9.50	Agnieszka Banas
	Detection of microscopic particles present as contaminants in latent fingerprints
10.10	Yao-Chang Lee
	An innovative wax-physisorption-based infrared kinetic imaging fro screening of
	human oral cavity cancer by utilizing infrared microspectroscopy
10.30	Jonathan M. Castro
	Applications of Synchrotron-based FTIR in Volcanology

10.50	COFFEE BREAK Sponsored by
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	THZ TECHNIQUES
	Chair: Lawrence G. Carr
11.20	Enrica Chiadroni
	The THz radiation source at the SPARC Free Electron Laser
11.40	Petra Probst Synchrotron pulse detection with a $YBa_2Cu_3O_{7-\delta}$ thin film THz detector
12.00	Michele Ortolani
	Fabrication and Characterization of Quasi-Optical Terahertz Nanorectifiers with
	Integrated Antennas
12.20	Odeta Limaj
	Terahertz behavior of Superconducting Slot Antenna Filters

12.40	GROUP PICTURE

13.00	LUNCH

	HIGH-RESOLUTION
	Chair: Yves-Laurent Mathis
14.30	Pascale Roy
	Toward highly stable Terahertz coherent synchrotron radiation at the
	synchrotron SOLEIL
14.50	Dominique R.T. Appadoo
	Capabilities of the Far-IR & High-Resolution Beamline at the Australian
	Synchrotron
15.10	Brant E. Billinghurst
	Challenges and Progress on the Far-Infrared beamline at the Canadian Light
	Source
15.30	Chris Medcraft
	Enclosive flow Cooling Cell on the Infrared Far-Infrared & High Resolution at
	the Australian Synchrotron

15.50	CLOSING

18.00	BOAT EXCURSION AND SOCIAL DINNER
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Thursday, September 8

9.00	VISIT TO ELETTRA AND FERMI FACILITIES