

Session Program

Sep 15 - 16, 2011



JUM@P '11: Joint Users' Meeting at PSI 2011

Poster session I and lunch

Paul Scherrer Institut, Villigen, Switzerland

Thu, September 15

12:15 PM

Poster session I and lunch

Session | **Location:** Paul Scherrer Institut, Villigen, Switzerland, WSLA - Foyer

12:15 - 12:17 PM **Sample Environment News**

Speaker

Dr Marek Bartkowiak

12:17 - 12:19 PM **First experiment at the new SINQ beamline BOA**

Speaker

Dr Uwe Filges

12:19 - 12:21 PM **Scanning small-angle X-ray scattering at the cSAXS beamline**

Speaker

Dr Oliver Bunk

12:21 - 12:23 PM

Characterization of a 20 nm hard X-ray focus by ptychographic coherent diffractive imaging

Speaker

Dr Ana Diaz

12:23 - 12:25 PM

Combining 3-D X-ray Velocimetry with ultra-fast tomography at TOMCAT

Speaker

Dr Sarah Irvine

12:25 - 12:45 PM

4D microtomographic imaging with sub-second temporal resolution with hard X-rays.

Speaker

Dr Rajmund Mokso

12:45 - 12:47 PM

Ultrafast Data Post Processing Pipeline for Real-Time Tomographic Imaging at TOMCAT

Speaker

Prof. Marco Stampanoni

12:47 - 12:49 PM **X-ray tomographic microscopy at TOMCAT: an overview**

Speaker

Prof. Marco Stampanoni

12:49 - 12:51 PM **Nanotomographic Imaging at TOMCAT**

Speaker

Prof. Marco Stampanoni

12:51 - 1:11 PM **Biomedical research with X-ray grating interferometry at TOMCAT**

Speaker

Dr Peter Modregger

1:11 - 1:13 PM

Ultra-fast Radiography on the Fly**Speakers**

Mr Daniel A Schwyn, Dr Rajmund Mokso, Dr Simon M Walker

1:13 - 1:15 PM

X-ray differential phase contrast tomography on a compact industrial micro CT scanner**Speaker**

Mr Thomas Thuring

1:15 - 1:17 PM

Simulation of grating-based hard X-ray imaging by combining Monte Carlo methods and wave optics**Speaker**

Silvia Peter

1:17 - 1:19 PM

Silver nanoparticles and synchrotron light-based nanotoxicology: new imaging modalities**Speaker**

Dr Alexandre Manton

1:19 - 1:21 PM

The mean acinar volume shows an unproportional growth compared to the total lung volume**Speaker**

Dr David Haberthür

1:21 - 1:23 PM

Towards X-ray Differential Phase Contrast Mammography**Speaker**

Dr Zhentian Wang

1:23 - 1:25 PM

In-vivo study of lung physiology with sub-second X-ray tomographic microscopy**Speakers**

Mr Goran Lovric, Dr Rajmund Mokso

1:25 - 1:27 PM

Ultrastructural Bone Phenomics using High Throughput Synchrotron-based X-Ray Tomography**Speaker**

Mr Kevin Mader

1:27 - 1:29 PM

Microstructure of food under changing external temperature**Speaker**

Ms Annabelle Medebach

1:29 - 1:31 PM

Deformation process of wood cellular structure during swelling and shrinkage

Speaker

Dr Michele Griffa

1:31 - 1:33 PM

Quantitativeness and Projection Processing for X-ray Ptychographic Nanotomography**Speaker**

Dr Manuel Guizar-Sicairos

1:33 - 1:35 PM

Insight into the 3D water distribution in PEFC Gas Diffusion Layer by In-situ X-ray Tomographic Microscopy**Speakers**

Dr Felix N. Büchi, Dr Jörg Roth

1:35 - 1:37 PM

Density mapping of hardened cement pastes using X-ray ptychographic nanotomography - pilot experiment**Speaker**

Dr Pavel Trtik

1:37 - 1:39 PM

Novel Imaging Approach for Quantitative Morphometry of Nano-Cellulose Scaffolds**Speaker**

Mr Luc Nimeskern

1:39 - 1:41 PM

In-Situ Ultrafast 3D Imaging of Magma Vesiculation at High Temperature**Speaker**

Mr Mattia Pistone

1:41 - 2:01 PM

COST IE0601: Investigations of the distribution and the decontamination of classical pesticides and synthetic pyrethroids in historical wooden objects by neutron and X-ray imaging**Speaker**

Mrs Katja Hunger

2:01 - 2:03 PM

Investigating the flow instabilities in soil by neutron imaging**Speaker**

Mr Petr Novotny

2:03 - 2:05 PM

Neutron radiography to visualize and quantify water flow in soil and plants**Speaker**

Mr Mohsen Zare

2:05 - 2:07 PM

Surface Element and Structure Characterization of Mesopotamian Iron-stone Roll Seals and Weights: 2500BC - 650 AD.**Speakers**

Dr Camelia Borca, Dr Daniel Grolimund, Dr Dirk Visser, Dr Markus Janousch, Dr Thomas Huthwelker

2:10 - 2:11 PM

Morphology and composition of individual tannic and shikimic acid particles studied at oxidizing environmental conditions

Speaker

Sarah Steimer

2:11 - 2:12 PM

Molecular architecture of the Spire-actin nucleus and its implication for actin filament assembly

Speaker

Dr Teemu Ikonen

2:12 - 2:13 PM

Combining low (SAXS) and high (crystallography) resolution structural analysis to resolve the activation mechanism of Vascular Endothelial Growth Factor Receptors

Speaker

Dr Kaisa Kisko

2:13 - 2:15 PM

Mineral dust and iron oxide particles studied under oxidizing and acidic conditions

Speaker

Dr Markus Lampimäki

2:15 PM