

Dear Colleagues,

With the development of synchrotron radiation facility and the experimental techniques, multidimensional (space, time, pressure, spectrum, and so on...) multi-scale (from nm to mm) and in situ imaging technique is developing rapidly and it has attracted many scientists attention in different fields. In order to further promote the synchrotron radiation imaging techniques and applications, the "Symposium on Multi-scale and Multi-dimensional Synchrotron Radiation Imaging Techniques and Applications (MMSRI-2015)" will be held **in Shanghai on 3-6 November 2015**. The Symposium will focus on the latest developments in instruments, methods and application for synchrotron radiation based imaging.

Due to numerous requests, the abstract submission deadline for the "Symposium on Multi-scale and Multi-dimensional Synchrotron Radiation Imaging Techniques and Applications (MMSRI-2015)" has been extended.

**Abstract submissions** will now be accepted until **30 September 2015** via <http://mmsri2015.csp.escience.cn/dct/page/65554>, registration is certainly also possible without a submission.

Peer-reviewed full papers will be published in [Journal of Instrumentation](#) (2014 Impact Factor = 1.399)

**Invited Speakers:**

NAME	PRESENTATION TITLE	INSTITUTE
Kamel Fezzaa	Ultrafast x-ray imaging and diffraction program at 32-ID beamline of the APS	Advanced Photon Source
Jinchuan Guo	Progress in the grating-based x-ray imaging technology	Shenzhen University
Christopher Hall	The Imaging and Medical Beam Line at the Australian Synchrotron	Australian Synchrotron
Shensheng Han	Experimental demonstration of x-ray Fourier transform ghost diffraction imaging at SSRF	Shanghai Institute of Optics and Fine Mechanics, CAS
Jianzhong Hu	New prospects for spinal cord microvasculature imaging: From 2D to 3D	Central South University
Xiaofang Hu	Investigation on Material's Mechanical Properties by Synchrotron Radiation X-Ray Computed Tomography	University of Science and Technology of China
Huaidong Jiang	3D high-resolution quantitative imaging and its applications	Shandong University
Jae-Hong Lim	Introducing the Bio Medical Imaging beamline of Pohang Light Source-II	Pohang light source

Yijin Liu	The relationship between the microscopic morphology and the macroscopic properties: applications of X-ray microscopy/nanoscopy in heterogeneous catalysis and subsurface geoscience	SLAC National Accelerator Laboratory
Shengnian Luo	Simultaneous multiscale measurements on dynamic materials response at a synchrotron	The Peac Institute of Multiscale Sciences
Kevin Mader	Applying Streaming Analytics to Tomographic Imaging	Swiss Light Source
Michael C. Martin	Infrared Spectroscopy in 3D and at Nano Scales	Advanced Light Source
Atsushi Momose	Development for dynamical X-ray phase imaging with grating interferometry	Tohoku University
Yen-Fang Song	In-situ and 3-Dimensional Nano-Transmission X-ray Microscopy at NSRRC	National Synchrotron Radiation Research Center
Marco Stampanoni	Challenges in realtime, 4D tomographic imaging: the SLS experience	Swiss Light Source
Yangchao Tian	Three-dimensional microstructural imaging of energy materials using high resolution X-ray tomography	National Synchrotron Radiation Laboratory
Dadong Wang	Automated Quantitative Analysis of Ultra High-Resolution 3D images of Vasculature and Microvasculature	CSIRO
Hongchang Wang	Smart X-ray imaging with sandpaper at Diamond Light Source	Diamond Light Source
Tongmin Wang	Synchrotron Radiation Imaging on Solidification Behaviour of Metallic Alloys	Dalian University of Technology
Yujie Wang	X-ray tomography studies of the amorphous structural order and defects in granular materials	Shanghai Jiao Tong University
Zhijun Wu	Evaluation and optimization of the structural parameter of diesel nozzle basing on synchrotron radiation imaging techniques	Tongji University
Xianghui Xiao	Synchrotron dynamics tomography applications and beyond	Advanced Photon Source
Guoyuan Yang		Shanghai Jiao Tong University
Sam Yang	DCM characterization and modelling of material 3D compositional microscopic structures and properties with multi-energy quantitative X-ray CT	CSIRO
Yimin Yang	Investigation of production technology of ancient faience and glass beads in China	University of Chinese Academy of Sciences

	through SR Mirco-CT	
Jiao Zhang		Shanghai Jiao Tong University
Jiwen Zhang	Quantitative micro-structures of drug delivery systems and formulations determined by Shanghai Synchrotron Radiation Facility	Shanghai Institute of Materia Medica, CAS
Peiping Zhu	Progress of angular signal imaging at BSRF	Institute of High Energy Physics, CAS

**Topics of this symposium:**

- ◆ Imaging Methodology
  - 3D Dynamic X-ray imaging
  - Full field X-ray nano imaging
  - X-ray Fluorescence imaging
  - Infrared imaging
  - Diffraction contrast X-ray imaging
  - Coherent X-ray imaging
- ◆ Detector
  - Ultrafast X-ray detector
  - Array X-ray detector(Energy and position resolution)
  - Infrared detector
  - Large dynamic range X-ray detector
- ◆ Big data
  - Storage
  - Remote sharing
- ◆ Applications
  - Biomedical
  - Material
  - Archaeology
  - Energy and the environment
  - Industrial application ...

Please refer to the conference website for all details:

[www.sinap.ac.cn/mmsri2015](http://www.sinap.ac.cn/mmsri2015)

We are looking forward to welcoming you in Shanghai.

Kind regards

Prof. Dr. Tiqiao XIAO  
Executive Chair of MMSRI-2015