

International Workshop on Radiation Imaging Detectors

22 - 26 June 2014 Trieste, Italy

Scientific Committee

Cinzia Da Via, University of Manchester, UK
Wasi Faruqi, MRC Laboratory of Molecular Biology, UK
Christer Fröjdh (Chair), Mid Sweden University, Sweden
Heinz Graafsma, DESY, Germany
Diana Hannikainen, Florida Institute of Technology, USA
Thilo Michel, Friedrich-Alexander-University Erlangen-Nürnberg, Germany
Seppo Nenonen, Oxford Instruments Analytical Oy, Finland
Sture Petersson, KTH/Mid Sweden University, Sweden
Stanislav Pospisil, Czech Technical University in Prague, Czech Republic
Valeria Rosso, University of Pisa and INFN Pisa, Italy
Val O'Shea, University of Glasgow, UK
Bernd Schmitt, PSI-SLS, Switzerland
Jan Visschers, PANalytical B.V., The Netherlands

Local Organizing Committee

Renata Longo, University of Trieste and INFN (Chair)
Ralf Hendrik Menk, Elettra Sincrotrone Trieste (Chair)
Fulvia Arfelli, University of Trieste and INFN
Walter Bonvicini, INFN Trieste
Luciano Bosisio, University of Trieste and INFN
Giuseppe Cautero, Elettra Sincrotrone Trieste
Luigi Rigon, University of Trieste and INFN
Luigi Stebel, Elettra Sincrotrone Trieste
Andrea Vacchi, INFN Trieste
Hazem Yousef, Elettra Sincrotrone Trieste

International Workshop
16th iWoRiD
on Radiation Imaging Detectors



Program

Program

The workshop will have plenary sessions with invited and contributed papers presented orally and in poster sessions. The invited talks will be chosen to review recent advances in different areas covered in the workshop. Two Best Poster Awards will be presented. This year's workshop will have special emphasis on pixelated - energy dispersive devices.

Sensor Materials, Device Processing & Technologies

Si, A-Si, Ge, GaAs, CdTe and other semiconductors
CVD Diamond detectors
Scintillators
Gaseous detectors
Quantum devices
Drifting schemes
Processing, Characterization, Reliability & Radiation damage

Front end electronics and readout

Monolithic and hybrid systems
Spectroscopic systems
Charge integrating and counting systems
3D ASICs and 3D interconnections
Data compression, transfer and storage
> 100 GHz electronics

Imaging theory

Imaging with ionizing radiation
Complementary imaging techniques at different length scales
Fluorescence mapping and tomography
3D- reconstruction with limited data sets
Low radiation dose approaches

Applications

Material & life science
Multi wavelength techniques
Element mapping in 2D / 3D
Sub μm imaging
Sub ns imaging
TOF and particle tracking
High energy physics
High power lasers
Applications at X-ray free electron lasers
Electron microscopy
Neutron imaging
Security systems and other Industrial applications
Astronomical and space applications
Nuclear physics
Fusion research...

16th iWoRiD

website

<http://iworld2014.ts.infn.it>

