



Submission of Abstracts

The deadline for the submission of abstracts is **April 1st, 2014**. Instructions for authors and templates will be available on the workshop website <http://iworid2014.ts.infn.it>

Proceedings

Manuscripts submitted to the workshop will be reviewed published in international peer review journal.

Registration and Fee

Registration opens on January 2014. Online registration and all relevant information can be found on the website. The registration fee is estimated to be ~ 600 €, including daily coffee breaks and lunches, a welcome reception on Sunday, the transfer for a visit of Elettra-Sincrotrone Trieste, the conference dinner, a boat trip in the Golfo di Trieste and a walking tour in the footsteps of James Joyce, Italo Svevo and Rainer Maria Rilke. An early registration fee will be offered before April 24th, 2014 and reduced PhD students registration fee will be available: see website for details.

Workshop Location

Trieste is situated in the Northeastern part of Italy close to Venice and adjoining to Slovenia. It is surrounded by the Adriatic Sea and by stark karst promontory pervading a peculiar atmosphere in the city. The ambience is characterised by the scents and colours of the Mediterranean maquis, intensified by the bracing air of the Bora wind. In the 19th century, Trieste was the most important port of the Austro-Hungarian Empire and as a prosperous seaport in the Mediterranean region, Trieste became the fourth largest city of the empire (after Vienna, Budapest, and Prague). In the fin-de-siecle period, it emerged as an important hub for literature and music. IWORID 2014 will be held at University of Trieste close to the city centre.

Address

University of Trieste
Piazzale Europa 1,
34100 Trieste, Italy,

Accommodation

A list of recommended hotels will be available on the web site <http://iworid2014.ts.infn.it>

A visit of Elettra Sincrotrone Trieste is organized during the conference. More information about Elettra synchrotron and the FERMI FEL can be found at: elettra.eu
Tourist information about Trieste can be found at: <http://www.turismofvg.it/Locality/Trieste>

22 - 26 June 2014

Trieste, Italy

International Workshop
16th iWoRiD
on Radiation Imaging Detectors

International Workshop on Radiation Imaging Detectors



22 - 26 June 2014

Trieste, Italy
University of Trieste

Scientific Committee

Cinzia Da Via, University of Manchester, UK
Wasi Faruqi, MRC Laboratory of Molecular Biology, UK
Christer Fröjdth (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 on Radiation Imaging Detectors

The International Workshops on Radiation Imaging Detectors are held yearly and provide an international forum for discussing current research and developments in the area of position sensitive detectors for radiation imaging, including semiconductor detectors, gas and scintillator-based detectors. Topics include processing and characterization of detector materials, hybridization and interconnect technologies, design of counting or integrating electronics, readout and data acquisition systems, and applications in various scientific and industrial fields.

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.

International Workshop
16th iWoRiD
on Radiation Imaging Detectors



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...