

Accommodation

As the workshop is located in central Helsinki, a wide variety of hotels are within walking distance. A list of hotels can be found on the workshop home page. Participants are requested to make their own reservations.

Submission of Abstracts

The deadline for the submission of the abstracts is **April 1st 2008**. Instructions for authors are available on our website.

Registration and Fee

Forms for registration and relevant local organizing contact information can be found on our website.

The registration fee is estimated to be 500 €, including daily coffees and lunch, and social events. During the pre-registration period (until June 1st, 2008) a reduced fee will be charged from participants belonging to universities and pure research institutions. The website will be updated with the exact figures.

Proceedings

Manuscripts submitted to the workshop will be reviewed and published in a special edition hardcover volume of Nuclear Instruments & Methods in Physics Research, Section A, Elsevier Science B.V.

Workshop location

The workshop will be held in the Main Building of the University of Helsinki. Further information on the city of Helsinki is available on the following web site:

www.helsinki.fi/en

First Announcement and Call for Papers

10th International Workshop on Radiation Imaging Detectors



June 29 – July 3, 2008

Helsinki, Finland

Hosted by:

University of Helsinki
Helsinki University of Technology
VTT Technical Research Centre of Finland
Oxford Instruments Analytical Oy

www.IWORID2008.fi

Scientific Committee

Christer Fröjdh Mid Sweden University, Sweden

Heinz Graafsma DESY Hamburg, Germany

Diana Hannikainen Helsinki University of Technology

Jens Ludwig Universität Freiburg, Germany

Thilo Michel Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Seppo Nenonen (Chair) Oxford Instruments Analytical

Sture Petersson KTH/ Mid Sweden University, Sweden (Chair)

Stanislav Pospisil Czech Technical University in Prague, Czech Republic

Valeria Rosso University of Pisa and INFN Pisa, Italy

Ken Smith University of Glasgow, Scotland

Jan Visschers NIKHEF, The Netherlands

Local Organizing Committee

Risto Orava University of Helsinki

Diana Hannikainen Helsinki University of Technology

Harri Lipsanen Helsinki University of Technology

Ilkka Suni VTT Technical Research Centre of Finland

Seppo Nenonen (Chair) Oxford Instruments Analytical Oy

Aatos Heikkinen, University of Helsinki

Erik Brücken, University of Helsinki

Pasi Kostamo, Helsinki University of Technology

Juha Kalliopuska, VTT Technical Research Centre of Finland

Juha Nieminen, Oxford Instruments Analytical Oy

Local Organization Contact

Mail: loc-iworid2008@helsinki.fi

IWORID

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 semiconducting and gaseous detectors, and scintillators. This workshop is the successor of the series of workshops on Gallium Arsenide and Related Compounds. Information on the previous workshops may be found at our website.

Topics of interest include processing and characterization of detector materials, design of photon-counting or integrating pixel electronics, hybridization and interconnect technologies, readout systems, and applications in life science, as well as industrial and space applications.

The tenth workshop will be hosted by the University of Helsinki, Helsinki University of Technology, VTT Technical Research Centre of Finland and Oxford Instruments Analytical Oy.

Program

The workshop will have plenary sessions with invited and contributed papers presented orally, as well as a poster session. The invited talks will be chosen to review the different areas and the recent advances. Several social events will be organized around the workshop.

www.IWORID2008.fi

Preliminary Scientific Program

Detectors

- Silicon (single crystal and amorphous)
- Gallium Arsenide, Cd(Zn)Te
- Other semiconductors
- 3D and edgeless sensors
- Scintillators
- Gaseous detectors
- Processing
- Radiation damage

Front-end Electronics and Readout

- Integrating frontends and CCDs
- Photon counting front-ends
- Monolithic (active pixel sensors)
- Detector readout architecture

Interconnect Technologies

- Bump bonding
- High density interconnects
- Multi-chip detector modules

Imaging Theory and Processing

- Energy weighting
- Correction algorithms

Applications

- (Bio-)Medical applications
- Industrial applications
- Material analysis
- X-ray diffraction and fluorescence
- Molecular crystallography
- High-Energy physics
- Space applications
- Security systems
- Neutron imaging
- Synchrotron studies
- Free electron laser applications
- Nanotomography

Novel Imaging Technologies