

## IWoRiD

The International Workshops on Radiation Imaging Detectors are held yearly and they provide an international forum for discussing current research and developments in the area of position sensitive detectors for radiation imaging, including both semiconductor detectors and scintillator-based detectors. This workshop is the successor of a series of workshops on Gallium Arsenide and Related Compounds. Information on previous workshops may be found on our Website (see below).

The fourth workshop will be hosted by NIKHEF, the National Institute for Nuclear Physics and High-Energy Physics in the Netherlands.

Topics 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 Sciences, as well as industrial applications and space applications.

## Program

The workshop will have plenary sessions with invited and contributed papers presented orally, as well as a poster session. Invited talks will be chosen to overview the different areas and the recent accomplishments. Around the workshop will be organized several Social Events, including a trip to the countryside around Amsterdam ("Waterland") on Sunday 8 September. We offer no special daytime partner program, but Amsterdam has an excellent public traffic system and the city has many sights worth to be seen.

## Scientific Committee (Preliminary)

Mario Caria

*University of Cagliari, Italy*

Christer Fröjd

*REGAM Medical Systems and  
Mid-Sweden University, Sweden*

Jens Ludwig

*University of Freiburg, Germany*

Seppo Nenonen

*Metorex Oy, Finland*

Sture Petersson

*KTH, Sweden*

Stanislav Pospisil

*Czech Technical University, Czech Republic*

Ken Smith (Chair)

*University of Glasgow, Scotland*

Jan Visschers

*NIKHEF, The Netherlands*

Ulf Welander

*Karolinska Institutet, Sweden*

## Local Organizing Committee

David San Segundo Bello

Alessandro Fornaini

Els Koffeman

Arjen van Rijn

Jan Visschers (Chair)

## First Announcement

## 4th International Workshop on Radiation Imaging Detectors

8 - 12 September, 2002

to be held at:  
National Institute for Nuclear Physics  
and High-Energy Physics (NIKHEF)  
Amsterdam, The Netherlands



## Sponsored by Dutch Industries:

Electronics Workbench, Naarden  
Keithley Instruments, Gorinchem  
National Instruments, Woerden  
Philips Analytical, Almelo  
Simac-Masic & TSS, Veldhoven





## Proceedings

Manuscripts submitted to the workshop will be reviewed and published in a hardcover volume of Nuclear Instruments and Methods in Physics research, section A, Elsevier Science B.V.

## Workshop location

The workshop will be held in the campus called "Amsterdam Science and Technology Center", where NIKHEF is located, together with other scientific institutes and technological companies, at Kruislaan 409, Amsterdam. The location is in the Watergraafsmeer, in the south-east part of the city of Amsterdam and has easy connections by public traffic to the city center, the museum district and to Schiphol Airport. Please visit our website for more detailed travel information, and public traffic information.

## Accommodation

Participants to the workshop will be hosted in medium-size middle class hotels in down-town Amsterdam, where blocks of rooms have been already reserved. A limited amount of cheaper accommodation has been reserved at the Hospitium of the Free University, in the south-west part of Amsterdam. Bookings must be made through the Workshop Secretariat at the earliest possible occasion, because the hotel situation in Amsterdam is extremely difficult. Please visit our website and make your (pre-) registration as soon as possible.

## Registration

Forms for (pre-) registration can be found on our Website. They may be returned on-line or printed and FAX-ed to the Workshop Secretariat. The deadline for pre-registration against a reduced fee is April 1st, 2002. If you have problems with Web-site access, please contact the Workshop Secretariat.

## Submission of Abstracts

The deadline for submission of abstracts is June 1st, 2002. Instructions to the authors will be available on our website.

## Fee

The registration fee is 500 Euros, including all social events. During the pre-registration period (until April 1st, 2002), a reduced fee amounting to 300 Euros will be charged to participants belonging to Universities and Pure Research Institutions. N.B. Because of limited accommodation, the maximum number of participants is ~ 80. Please perform your (pre-) registration as soon as possible, via our website.

## Workshop Secretariat

Anja van Dulmen  
Marijke Kesgin  
NIKHEF, PO-Box 41882, 1009 DB Amsterdam  
Tel.+31 20 592 5136 / Fax.+31 20 592 5054

## Website

E-mail: [iworld2002@nikhef.nl](mailto:iworld2002@nikhef.nl)  
WEB: <http://www.iworld2002.nl>

## Preliminary Scientific Program

### Detector Materials

Silicon (single crystal and amorphous)  
Gallium Arsenide, Cd(Zn)Te  
Other Semiconductors  
3D sensors  
Scintillators

### Detector Processing and Characterization

Processing  
Characterization  
Reliability  
Radiation damage

### Frontend Electronics and Readout

Integrating frontends and CCD's  
Photon counting frontends  
Monolithic (active pixel sensors)  
Detector readout Architecture  
Hardware  
Software

### Interconnect Technologies

Bump bonding  
High Density Interconnect  
Multi-chip detector modules

### Applications in Life Sciences

Dental Imaging  
(Bio-)Medical Imaging

### Industrial Applications

Materials Analysis  
X-ray diffraction and fluorescence  
Protein Crystallography  
Security systems

### Other applications

High-Energy Physics  
Neutron Imaging  
Synchrotron studies  
Space Applications

