

## General Information

The 2013 Workshop of the Technology and Innovation Group of the European Physical Society will be held in Ravenna (Italy) on November 11 and 12, 2013.

The Workshop will be dedicated to the description of the latest results on technologies to detect ionizing radiation (charged particles, neutrons, gamma and X rays) and to industrial applications in Medicine, Mechanics and Material Studies.

### Organizing Committee

Prof. Andrea Contin (University of Bologna)  
Dr. Horst Wenninger (Chairman of the EPS  
Technology and Innovation Group)  
Dr. Giovanni Anelli (CERN and EPS  
Technology and Innovation Group)  
Dr. Manjit Dosanjh (CERN and EPS  
Technology and Innovation Group)

### Organizing Secretariat

Fondazione Flaminia  
Via Baccarini 27  
48100 Ravenna, Italy  
Tel. +39(0)54434345  
Fax +39(0)054435650  
e-mail: [crossi@fondazioneflaminia.it](mailto:crossi@fondazioneflaminia.it)

### Registration

[www.emrg.it/TIG\\_Workshop\\_2013](http://www.emrg.it/TIG_Workshop_2013)

European Physical Society  
Technology and Innovation Group

# Advanced Radiation Detectors for Industrial Use

### Organized by:



2<sup>nd</sup> International Workshop

### Web site:

[www.emrg.it/TIG\\_Workshop\\_2013](http://www.emrg.it/TIG_Workshop_2013)

Ravenna, Italy  
11-12 November 2013

The European Physical Society (EPS) launched in 2012 a new Technology and Innovation Group (TIG), in accordance with the EPS Strategy Plan 2010+. This initiative, fostered by the EPS Executive Committee in 2011, confirms the longstanding role of the EPS in establishing links between industry, research institutes, society and universities within Europe.

The Technology and Innovation Group is building a close collaboration with the newly created Technology Transfer Offices (TTO) Circle, by means of CERN, which is both a founding EPS member as well as a major player in the TTO circle organisation.

The TTO network connects technology transfer offices from European public research organisations, to facilitate the spread of technology and research-based innovation to industry and society, and to provide models of best practice to smaller member offices.

The EPS Technology and Innovation Group intend to take stock of on-going events which relate to innovation and technology transfer: from physics research to final applications at an international level.

### November 11

**14h30 – 15h00 - Welcome**

**15h00 - 18h00 - Keynote Speeches:**

**Research - Technology - Industry**

Prof. Dr. Karsten Buse (Fraunhofer, Institut IPM (D))

**Knowledge Transfer Activities at CERN**

Dr. Giovanni Anelli (Leader, CERN KT Group (CH)) and

Prof. Manjit Dosanjh (CERN KT Group (CH))

**Knowledge Transfer Activities at INFN**

Dr. Andrea Vacchi (Responsible TT INFN (I))

**Pure and Applied Physics and the EU Economy**

Prof. Colin Latimer (Univ. of Belfast (UK), EPS Ex. Board)

**18h00 – Reception**

### November 12

**9h00 - 18h00 - Topical review talks:**

**Review of microelectronics and detectors**

Dr. Erik Heijne (IEEE, CERN, Czech Technical University Prague (CZ) and NIKHEF (NL))

**Molecular imaging**

Dr. Julia Jungmann (Paul Scherrer Institute (CH))

**PET technique and applications**

Prof. Dr. Alberto Del Guerra (University of Pisa (I))

**Silicon Drift Detectors**

Prof. Dr. Chiara Guazzoni (Politecnico Milano, INFN (I))

**Diamond Detectors**

Dr. Erich Griesmayer (CERN - EMCE (CH))

**Detectors for the Diamond Light Source**

Dr. Nicola Tartoni (Diamond (UK))

**Sensors in Space**

Dr. Carlos Granja (Czech Technical University (CZ))

### Presentations by Industries:

**New high throughput, large area Silicon Drift**

**Detectors**, Dr. Juergen Knobloch, KETEK GmbH (D)

**New Silicon Photomultipliers with very high**

**photon detection efficiency**, Werner Hartinger, KETEK GmbH (D)

**PIXIRAD: a new X-Ray imaging system based on**

**chromatic photon counting technology**, Dr. Rolando Bellazzini, PIXIRAD Imaging Counters srl (I)

Capital of the Western Roman Empire in the 5th century and the cradle of the Byzantine culture until the 8th century, Ravenna is celebrated worldwide for its mosaics. It houses the world's richest heritage of 5th and 6th century mosaics, superior in artistic quality and iconological importance to those of any other city. Eight of its monuments have been declared by UNESCO as Patrimonies of Humanity for their supreme display of mosaic work.



### Travel to Ravenna

By air: to the airports of Bologna or Rimini. Take the bus to the railway station. Ravenna can be reached in 1 hour.

By train: 1 hour train from Bologna or Rimini

By car: from highway A14, follow the indication to Ravenna (80 km from Bologna).

A list of Hotels is available in the web site.

### Congress Venue

Sala "Nullo Baldini", Via Guaccimanni 10, Ravenna (Italy)