

IOP | Institute of Physics

Medical Physics Group

IOP Medical Physics Group Session: Novel Imaging Detectors
IPEM ASM, Liverpool Hope University, Wednesday 16th September 2009

Novel Imaging Detectors I – Room 3 – 9:00 – 11:10:

- 9:00 – 9:10 Welcome & Introduction – Dr. D. Darambara, Dr S. Manolopoulos
9:10 – 9:50 **Keynote Lecture** - “*CMOS Active Pixel Sensors (APS) in Image-Guided Radiotherapy*” – Dr. John Osmond, Joint Department of Physics, The Institute of Cancer Research and The Royal Marsden NHS Foundation Trust, Sutton, UK
- 9:50 – 10:30 **Keynote Lecture** - “*Performance and Opportunities for the use of Semiconductor Detectors in Medical Imaging*” – Dr. Andrew J. Boston, Department of Physics, University of Liverpool, Liverpool, UK
- 10:30 – 11:10 **Keynote Lecture** - “*Performance and Status of the Cambridge Combined PET-MR Scanner*”, Dr. Richard Ansorge, Department of Physics, University of Cambridge & Wolfson Brain Imaging Centre, Addenbrooks Hospital, Cambridge, UK

Novel Imaging Detectors II – Room 3 – 11:30 – 13:00:

- 11:30 – 12:10 **Keynote Lecture** - “*Medipix – Photon-counting hybrid pixel detectors for x- and γ -ray medical imaging*” - Dr. Val O’Shea, Department of Physics & Astronomy, University of Glasgow, Glasgow, UK & CERN, Geneva, Switzerland
- 12:10 – 12:25 “*Pixellated semiconductor CZT detectors for gamma-ray imaging systems: a breast-specific example*” – M. Myronakis, Joint Department of Physics, The Institute of Cancer Research and The Royal Marsden NHS Foundation Trust, London, UK
- 12:25 – 12:40 “*The ProSPECTus Medical Imaging Project*” – L.J. Harkness, Department of Physics, University of Liverpool, Liverpool, UK
- 12:40 – 13:00 IOP MPG AGM

Novel Imaging Detectors III – Room 3 – 14:00 – 15:00

- 14:00 – 14:40 **Keynote Lecture** - “*From X-Ray Astronomy to Gamma Scintigraphy: Towards High Resolution Medical Imaging*” – Dr. John Lees, Department of Physics & Astronomy, Space Research Centre & Bioimaging Unit, University of Leicester, Leicester, UK
- 14:40 – 14:55 “*On the Spatial Resolution of Silicon-Based Detectors in β -Autoradiography*” – J. Cabello, Biomedical Imaging Group, Centre for Vision, Speech and Signal Processing, University of Surrey, Guildford, UK
- 14:55 – 15:00 Closing Remarks – Dr. D. Darambara and Dr. S. Manolopoulos