



**POSITRON EMISSION TOMOGRAPHY(PET)
TECHNOLOGY AND APPLICATION
3-DAY COURSE
KING'S COLLEGE LONDON**

Wednesday 9th – Friday 11th April 2014

You are invited to the ever popular 3-day course on PET: Technology and Application run by Professor Tony Gee. The course takes place on the Guy's Campus, conveniently located near London Bridge. The lecturers and group discussion leaders are internationally leading researchers from a range of academic, research and industrial institutions, primarily based in the UK, Europe and North America.

The informal, interactive course will cover lectures on all aspects of PET, from molecule to man, along with the latest developments and research highlights from experts in the field. These will be combined with breakout sessions and small group discussions in selected areas appropriate for the delegates. We expect the course to be attractive to researchers in the radiopharmaceutical and drug development industries, academic researchers, and scientists already working in commercial, clinical or academic PET centres.

From the course, delegates will gain knowledge about the principles of PET imaging and an understanding of the opportunities within PET as an emerging enabling technology, and the course will provide a platform for discussion and networking.

Topics will include:

- How PET radioisotopes are produced
- The chemistry of labelling compounds with shortlived positron-emitting radionuclides
- The design of PET tracers - impact on Interpretation of scanning data (e.g. position of labelling, metabolism, stereochemistry)
- PET instrumentation - how does a PET scanner or a cyclotron work
- How PET data is analysed (kinetic modelling, image analysis)
- How PET is used as a tool in basic biomedical research, pre-clinical studies, probing in vivo biological processes/mechanisms, drug development and discovery, diagnosis and treatment of disease
- Case studies and workshops

**Comprehensive lectures by leading International Speakers
Course Director, Professor Tony Gee, antony.gee@kcl.ac.uk**

**For more information and details of how to apply please go to
<https://www.kcl.ac.uk/prospectus/shortcourses/index/name/pet2014/keyword/medicine>**

Or contact Jas Bains, teachingadmin-imaging@kcl.ac.uk