



King's College London Course on Simultaneous PET-MR: Science and Practice 2017

Wednesday 28 – Friday 30 June 2017

St Thomas' Hospital, London, SE1 7EH
(by Waterloo and Westminster)

We offer a three-day course (CPD recognition applied for) for the novel technology of PET-MR. The first day will review either PET or MR theory separately for people with a background in the respective other modality.

We will then cover the new simultaneous PET-MR scanners in terms of technology and applications. There will be lectures, one practical session with scanner visits, three interactive Active Learning sessions, a workshop, and a session on reading scans together with clinicians.

Upon completion of this course, participants will be able to demonstrate understanding for PET or MR (whichever the modality they were not familiar with before), the principles of PET-MR, its clinical and scientific uses, with knowledge of opportunities and limitations.

COURSE DIRECTORS

Professor Alexander Hammers, MD PhD

Professor (Honorary Consultant) of Imaging and Neuroscience; Head of the King's College London & Guy's and St Thomas' PET Centre

Professor Andrew Reader, PhD

Professor of Imaging Sciences, Division of Imaging Sciences and Biomedical Engineering King's College London

WHAT DOES THE COURSE COVER?

First day (participants separated according to background): Either

- MR basic physics, sequences, reconstruction, analysis; applications for brain, heart and cancer – **or:**
- PET basic chemistry, physics/acquisition, reconstruction, analysis; applications for brain, heart and cancer

Second and third days: PET-MR

- Visits to either a PET or MR scanner, and then a PET-MR scanner
- History, current state-of-the-art instrumentation
- PET-MR specific MR sequences
- Practicalities
- Data correction (attenuation, motion)
- PET-MR specific image reconstruction and processing
- Reading of clinical scans with the experts

FIND OUT MORE

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**Further details, fees
and online application**

<https://tinyurl.com/kingspetmr2017>

**Division of Imaging Sciences
& Biomedical Engineering**

www.kcl.ac.uk/imaging