Programme - Short Course on:

Statistical Parametric Mapping for fMRI 2012
(Presented by the Wellcome Trust Centre for Neuroimaging)

Thu 18 – Sat 20 October 2012

The course will present instruction on the analysis and characterisation of functional imaging data. This includes Magnetic Resonance Imaging (MRI), functional MRI (fMRI), and Positron Emission Tomography (PET). The three-day course will be divided into theoretical sessions covering experimental design and statistical inference and practical sessions in which SPM will be used to analyse exemplar data sets. **This course is intended for new SPM users**; a course more suitable for those with previous experience of SPM will be held in May 2013. We advise students to gain at least some minimal familiarity with the methodology, for example, from reading introductory articles available from the SPM web page (http://www.fil.ion.ucl.ac.uk/spm/doc/intro/).

Thursday 18th October   **(Lecture Theatre, 33 Queen Square)**

8.45 - 9.00	Registration	
9.00 - 9.30	**Welcome:** Introduction and Overview	Guillaume Flandin
9.30 - 10.30	Spatial Preprocessing	John Ashburner
	Coffee	
11.00 - 12.00	**Demo:** Spatial Preprocessing	JA & Ged Ridgway
12.00 - 12.45	The General Linear Model	Guillaume Flandin
	Lunch	
13.45 - 14.30	Contrasts and Classical Inference	Justin Chumbley
14.30 - 15.00	Group Analysis	Will Penny
	Tea	
15.30 - 16.15	Random Field Theory	Tom Nichols
16.15 - 17.00	**Demo:** Block-design fMRI Analysis	Marco Leite
17.00 - 18.00	"Questions and Answers" Clinic	Karl Friston

Friday 19th October   **(Lecture Theatre, 33 Queen Square)**

09.15 - 10.00   Experimental design   Sara Bengtsson

10.00 - 10.45   Event-related fMRI   Christian Ruff

Coffee

11.15 - 12.00   Bayesian Inference   Jean Daunizeau

12.00 - 12.45   **Demo:** Event-related fMRI Analysis   Joel Winston

Lunch

13.45 - 14.30   Voxel-Based Morphometry   Ged Ridgway

14.30 - 15.15   Dynamic Causal Modelling for fMRI   Hanneke den Ouden

Tea

15.45 – 16.30   DCM for fMRI: Advanced topics   Klaas Enno Stephan

16.30 - 17.15   **Demo:** Dynamic Causal Modelling for fMRI   Mohamed Seghier &
                                                              Sukhbinder Kumar

17.15 - 18.00   "Questions and Answers" Clinic   Karl Friston

18.00 -   Social event
            Melton Mowbray, 18 Holborn, EC1N 2LE