Brussels 2011 SPM-M/EEG course

When: January 19-20, 2010 (Wednesday-Thursday)

Where: at Erasme University Hospital, Université Libre de Bruxelles, Brussels, Belgium

Who's teaching: **Vladimir LITVAK** (Imaging Neuroscience & Theoretical Neurobiology, Functional Imaging Laboratory, London, UK), **Jérémie MATTOUT** (INSERM U821 Dynamique Cérébrale et Cognition Bron, Lyon, FR), **Jason TAYLOR** (MRC Cognition and Brain Sciences Unit, Cambridge, UK), **Christophe PHILLIPS** (Cyclotron Research Centre, Université de Liège, BE).

Organizer: Philippe PEIGNEUX (ULB)

Course coordinator: Christophe PHILLIPS (ULg)

PROGRAM

Wednesday January 19th, 2011

9.00 - 9.30   M/EEG data, what are we measuring?

Jason Taylor

9.30 - 10.15   Data pre-processing

Vladimir Litvak

10.15 - 11.00   General linear model and classical inference

Christophe Phillips

Coffee

11.30 - 12.15   Multiple comparisons problem and solutions

Christophe Phillips

12.15 - 13.00   Statistical analysis of M/EEG - practical aspects

Jason Taylor

Lunch

14.00 - 14.45   M/EEG pre-processing – demo

Vladimir Litvak/Jason Taylor

14.45– 15.30   Statistical analysis of images – demo

Jérémie Mattout/Christophe Phillips

Coffee

16.00-18.00 Hands on session 1   *All tutors*

Thursday January 20th, 2011

9.00 - 9.30   M/EEG forward problem and solutions

Christophe Phillips

9.30 - 10.00 M/EEG inverse problem and solutions in the Bayesian framework

Jérémie Mattout

Coffee

11.00 - 11.45   Imaging source reconstruction in the Bayesian framework, practical aspects

Jason Taylor

11.45 - 12.15   M/EEG source analysis – demo

Jérémie Mattout/Jason Taylor

12.15 - 13.00   The principles of DCM and other interesting bits in SPM-M/EEG

Vladimir Litvak

Lunch

14.00-17.00 Hands on session 2, including a coffee break

All tutors

 17.00-18.00   Concluding comments and questions

All tutors