

Workshop

5 & 6 December 2008

Max Planck Institute for Human Cognitive and
Brain Sciences, Leipzig (Germany)

Magnetoencephalography and Cognitive Neuroscience: State of the Art and Perspectives

The workshop aims to discuss the current state of the art in MEG data analysis and experimental design. What are the most promising paths and strategies for future development, especially with respect to research on higher cognitive functions? On the other hand, what are possible blind spots – questions in the field of cognitive neuroscience which in principle cannot be answered by the MEG method? What is the general perspective of MEG research in the field of cognitive neuroscience?

Admission is free, registration required. For more information, please visit www.cbs.mpg.de/~90957.

Invited Speakers

Olivier David (F), Joachim Gross (UK), Murray Grossman (USA), Sydney Cash (USA), James V. Haxby (USA), Richard Henson (UK), Ole Jensen (NL), Friedemann Pulvermüller (UK)

Programme

Friday, 5 December

9:30 Coffee and Reception

10:00 Welcome and introduction (Burkhard Maess)

10:20 Session I (Chair: Arno Villringer)

- Sydney Cash: Different aspects of cortical activity measured by MEG, EEG and MRI: Insights from intracranial recordings
- Ole Jensen: The role of alpha and gamma activity in perception and memory

12:00 Lunch (provided)

13:30 Session II (Chair: Thomas Jacobsen)

- Friedemann Pulvermüller: MEG as a tool for cognitive neuroscience
- Joachim Gross: Non-invasive investigation of neural communication in the human brain with MEG: Achievements, limitations and future directions

15:10 Coffee

15:30 Session III (Chair: Angela D. Friederici)

- Richard Henson: MEG analysis in SPM
- General discussion

Saturday, 6 December

9:00 Session IV (Chair: Burkhard Maess)

- James V. Haxby: Multimodal imaging combining MEG and fMRI: Benefits and problems
- Olivier David: Dynamic causal modeling of evoked brain activity

10:40 Coffee

11:00 Session V (Chair: Thomas R. Knösche)

- Murray Grossman: How can MEG help us understand narrative?
- Discussion & Final remarks

13:00 Lunch (provided)