



II Symposium on Magnetoencephalography:
From Research to Clinical applications
27th January 2017

9:45-9:50 Introduction **Fernando Maestú / Gustavo Guinea**
9:50-10:20 Opening Lecture **Camilo José Cela-Conde** Art and the Brain: insights from Magnetoencephalography

Basics of MEG and new perspectives (Chairman Angel Nevado)

10:20-10:40 **Ernesto Pereda** Principles of MEG
10:40-11:00 **Denis Schwartz** Deep source localization and studies of functional brain networks with MEG
11:00-11:20 **Lauri Parkkonen** Real-time MEG and neurofeedback for basic neuroscience and clinical applications

11:20-11:50 Coffee break

MEG in dementia and movement disorders (Chairman Alberto Fernandez)

11:50-12:10 **Marjolein Engels** MEG as a diagnostic tool for Alzheimer's disease
12:10-12:30 **Laura Hughes** MEG in fronto-temporal dementia
12:30-12:50 **Eero Pekkonen** Deep brain stimulation in movement disorders

12:50-14:00 Lunch

MEG in epilepsy and neurosurgery (Chairman Leonides Canuet)

14:00-14:20 **Anto Bagic** Can MEG support kindling of a surge in epilepsy surgery?
14:20-14:40 **Gretchen K. Von Allmen**, Using MEG to Understand Characteristics of Epileptic Networks in Malformations of Cortical Development
14:40-15:00 **Jyrki Mäkelä** Combining MEG and navigated transcranial magnetic stimulation in neurological and neurosurgical patients

15:00-15:30 Coffee break

MEG in Emotions and motor control research (Chairman Javier García-Pacios)

15:30-15:50 **Nathalie George** MEG studies of the functional brain networks of face, gaze, and emotion perception
15:50-16:10 **Stephan Moratti** Emotional arousal and acquired fear in visual cortex: From basic findings to clinical aspects in affective disorders
16:10-16:30 **Daniel Lundqvist / Mikkel Vinding** Sensorimotor organization and motor control in Parkinson's disease

16:30-17:00 Coffee Break

The Aging Brain: big projects across the world (Chairman Pablo Cuesta / Ricardo Bajo)

17:00-17:20 **Akinori Nakamura** Multimodal neuroimaging for Alzheimer's disease: Exploring biomarkers for AD
17:20-17:40 **James Becker** The Human Connectome Project. Connectomics of the aging brain.
17:40-18:00 **Rik Henson** Age, Brain and Cognition in Ageing: Findings from the Cambridge Centre for Ageing and Neuroscience (CamCAN)
18:00 Closing remarks **Francisco Del Pozo**

INVITED SPEAKERS

Anto Bagic, University of Pittsburgh Comprehensive Epilepsy Center (UPCEC), Department of Neurology, Center for Neural Basis of Cognition (CNBC), University of Pittsburgh Medical School, Pensilvania, USA

James Becker, Alzheimer Disease Research Center (ADRC), Department of Psychiatry, Center for Neural Basis of Cognition (CNBC), University of Pittsburgh, Pensilvania, USA

Camilo José Cela-Conde, Center for creativity Irvine University, California USA

Marjolein Engels VU University Medical Center, Amsterdam. The Netherlands

Nathalie George Social and Affective Neuroscience Laboratory and Centre MEG-EEG, Institut du Cerveau et de la Moelle épinière, Hôpital de la Salpêtrière, Paris, France.

Rik Henson, MRC Cognition & Brain Sciences Unit, University of Cambridge, Cambridge, UK

Laura Hughes, MRC Cognition & Brain Sciences Unit and Neurology Unit, University of Cambridge, Cambridge, UK

Daniel Lundqvist, NatMEG, Karolinska Institutet, Stockholm, Sweden

Jyrki Mäkelä, BioMag Laboratory, HUS Medical Imaging Center, University of Helsinki and Helsinki University Hospital

Stephan Moratti, Laboratory for Cognitive and computational neuroscience (UCM-UPM), Center for Biomedical Technology, Madrid Spain.

Akinori Nakamura, Department of Clinical and Experimental Neuroimaging, Center for Development of Advanced Medicine for Dementia National Center for Geriatrics and Gerontology, Obu-shi, Japan

Lauri Parkkonen Department of Neuroscience and Biomedical Engineering, Aalto University, Espoo, Finland

Ernesto Pereda, University of La Laguna, Canary Islands, Spain

Eero Pekkonen, Department of Neurology, University of Helsinki, Helsinki, Finland

Denis Schwartz ICM – CENIR, Hôpital de la Salpêtrière, Paris, France

Gretchen K. Von Allmen, UT Pediatric Epilepsy Program, Houston, Texas, USA

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Contact information and registration

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