

Consciousness and its Measures

November 29 - December 1, 2009

St. Raphael Hotel in Limassol, Cyprus

Presentations

- Each oral presentation will be allocated 20 minutes (15 minutes for the presentation plus 5 minutes for questions). **A strict time limit will be applied.** Please bring your presentation file (preferably in PowerPoint or PDF format) on a USB or CD/DVD disk. If you have special requirements (e.g. need to use a personal laptop or have a presentation file in a different format), please let us know in advance.
- The preferred poster size is A0 (W841 mm x H1189 mm), in Portrait orientation.
- The presenters must be with their posters during the formal Poster Sessions. Please also be aware of poster mounting and removal times.
- Poster printing service can be provided at a cost of 50 Euro per print. The poster must be received by the organisers in a PDF format by November 19, 2009. For more details, please contact us at neuroconsci2009@humanbraindynamics.com.

Oral presentation Session 1

(10:40-12:20 November 29)

- 10:40 **S. Kouider** How rich is consciousness? The Partial Awareness Hypothesis.
- 11:00 **M. I. Stamenov** What can the meaning of ambivalent words tell us about the structure of consciousness?
- 11:20 **K. C. Neokleus, M. N. Avraamides, C. N. Schizas** Using computational modelling to investigate the link between consciousness and attention.
- 11:40 **M. Wierzchon** Why do subjective measures sometimes fail to assess conscious access and how to use them successfully?
- 12:00 **C. Christodoulou and A. Cleanthous** Modelling and Resolving Conscious Conflict through Learned Self-Control Behaviour.

Oral presentation Session 2

(14:40-15:40 November 29)

- 14:40** **F. Constantinidou** Working Memory and Executive Functioning after Moderate to Severe Traumatic Brain Injury.
- 15:00** **J. Leon-Carrion** Severe neurocognitive disorders: the disrupted content of consciousness.
- 15:20** **M. M. Monti, A. M. Owen** Disentangling the automatic from the conscious brain: fMRI of the vegetative state.
- 15:40** **N. Konstantinou, B. Bahrami, G. Rees, N. Lavie** Visual Short-Term Memory Load Induced Blindness: Neuroimaging and behavioural evidence.

Oral presentation Session 3

(09:25-10:05 November 30)

- 09:25** **A. Vik, J. Xu, I. A. Rasmussen, A. Holen, S. Davanger, Ø. Ellingsen, A. Håberg, J. Lagopoulos** ACEM-meditation, a better way to rest?
- 09:45** **P. B. C. Fenwick, G. K. Kostopoulos, L. Liu, A. A. Ioannides** The Relationship between Violent Arousals and the Distribution of low Wave Activity in Sleep.

Oral presentation Session 4

(15:40-16:40 November 30)

- 15:40** **R. Nataanen** Brain Mechanisms of conscious perception in audition.
- 16:00** **K. Blinowska, A. Brzezicka, M. Kamiński, J. Kamiński** Information transfer during simple and complex working memory tasks.
- 16:20** **D. Shimaoka, K. Kitajo, K. Kaneko, Y. Yamaguchi** Transient Cortical Activity during Necker Cube Perception from Local Clusters to Global Synchrony.

Oral presentation Session 5

(09:40-11:00 December 1)

- 09:40** **V. Kokkinos, A. Koupparis, M. L. Stavrinou, G. K. Kostopoulos** Interactions between NREM sleep stage II spindles and K-complexes.
- 10:00** **G. Vecchiato, L. Astolfi, F. De Vico Fallani, S. Salinari, F. Cincotti, M. Sorrentino, D. Mattia, L. Bianchi, R. Soranzo, and F. Babiloni** The study of brain activity during the observation of Public Service Announcements (PSA's) by using high resolution EEG techniques.
- 10:20** **G. Plomp, C. M. Michel, M. H. Herzog** Electrical source dynamics in functional localizer paradigms.
- 10:40** **D. L. Turner, X. Tang** Direction-Dependent Modulation of Early Visuomotor Processing during Robot- Mediated Arm Reaching.

Oral presentation Session 6

(14:30-15:30 December 1)

- 14:30** **A. A. Ioannides, P. B. C. Fenwick and L. Liu** The Relationship of Consciousness to Activity in the Frontal Eye Fields during Planning and Execution of Eye Movements.
- 14:50** **L. Astolfi, F. Cincotti, D. Mattia, F. De Vico Fallani, S. Salinari, C. Wilke, A. Doud, H. Yuan, B. He, F. Babiloni** Estimation of the Cortical Activity from Simultaneous Multi- Subject Recordings.
- 15:10** **A. Oliviero, B. Moreno-Burriel, V. Soto-León, E. Chinarro-Martin, E. Villanueva, A. del Campo, J. Ramon Jurado-Egea, G. Foffani** EEG- EMG coherence analysis improves using a multiarray electrode device.

Poster presentation Session 1

(16:10-18:30 November 29 and 10:25-11:00 November 30)

(Posters on board from 8:30 November 29, to 14:30 November 30)

- P01:** **E. Van den Bussche, G. Hughes, B. Reynvoet** The relation between consciousness and attention: an empirical study using the priming paradigm
- P02:** **S. Sekulic, J. Podgorac, G. Stojadinovic, G. Kekovic, Lj. Martac, M. Culic** Spectral changes of rat cerebral and cerebellar activity under different anaesthesia regime.
- P03:** **A. Vermeiren, A. Cleermans** Learning to be conscious.
- P04:** **Y. Urakami, M. Maeno** Sleep spindles as an indicator of recovery following diffuse axonal injury.
- P05:** **D. Levy** Forgotten but not gone: Unconscious memory traces yield context effects on recognition.
- P06:** **M. Arsalidou, J. Pascual-Leone, J. Johnson, D. Morris, M. J. Taylor** Neural Competition between Voluntary and Spontaneous Networks.
- P07:** **M. Binder** Neural correlates of simultaneity of audiovisual stimuli.
- P08:** **H. Hinrikus, J. Lass, A. Rodina** Effect of noise in processing of visual information.
- P09:** **D. M. Psatta** From Consciousness to Conscience.Cerebral processes revealed by EEG Spectral Reaction Mapping (SRM).
- P10:** **I. Stojanovska, B. Prevalla, B. Percinkova** Simulation of connecting multi agent model-An application to Information Paradigm.
- P11:** **K. Sandberg, B. Bahrami, G. R. Barnes, M. Overgaard, G. Rees** Localisation of cortical areas involved in conscious processing during binocular rivalry using MEG.
- P12:** **C. Lithari, C. Frantzidis, P.D. Bamidis, C. Pappas** Is P300 configured by the stimulus itself, or the preceding stimuli contribute to it? A Markov chains study of an emotional protocol.
- P13:** **S. Markovska-Simoska, N. Pop-Jordanova, J. Pop-Jordanov** Brain rate parameter as a measure of the level of consciousness in ADHD adults.
- P14:** **A. Lundervold** Consciousness – dynamical systems – resting state fMRI.
- P15:** **S. Josef Golubic, C. J. Aine, S. Supek** Sensitivity of early and late neuromagnetic auditory activity to degenerative processes in MCI and AD.
- P16:** **V. Kokkinos, M. Symms** The fMRI of a digit–span working memory task:a single subject analysis.
- P17:** **M. M. Hadjimarkou, R. Benham, M. D. Schwartz, J. A. Mong** Gonadal hormones affect sleep homeostasis in the female rat.

Poster presentation Session 2

(16:40-17:30 November 30 and 11:30-13:00 December 1)

(Posters on board from 15:00 November 30 to 13:00 December 1)

- P01:** **A. Muller, G. Cndrian** Machine Learning systems as a classification and analysis toll for patient groups using the example of ADHD and controls.
- P02:** **O. Sveljo, K. Koprivsek, M. Prvulovic, M. Lucic, M. Culic** Gender differences in language processing by means of Fmri.
- P03:** **R. A. Stepien** Analysis of Bio-Signals with distinct periodic components by Monotony.
- P04:** **W. Klonowski, W. Duch, Z. Đorđević, S. Spasić, A. Perović, A. Jovanović** Detection of structural feauters in brain signals and causality tests.
- P05:** **P. Stepien** Fast Empirical Mode Decomposition-New Tool for Analyzing EEG Signals.
- P06:** **S. Spasić, Lj. Nikolić, S. Kesić, V. Vasić, A. Kalauzi, J. Saponjić** Complexity of neuronal activity in different experimental models detected by Higuchi fractal dimension.
- P07:** **Z. Nagy, B. Végső, T. Magos, Cs. Szekrényesi, K. Fülöp, Gy. Kozmann** Evaluation of brain network organization from 128 channels EEG signals. New Technologies to study brain plasticity.
- P08:** **L. Moraru, G. Edlinger, C. Guger, A. Bezerianos** Quantitative predictors used in neonatal monitoring; cortical connectivity may reflect neurological status in newborns.
- P09:** **K. P. Michmizos, D. E. Sakas, K. S. Nikita** An in-silico model of an STN neuron that uses the LFP's to predict the spikes.
- P10:** **B. Wahlund, W. Klonowski, H. Liljenström, D. von Rosen, P. Stepien, R. A. Stepien** Mathematical toold for describing ictal EEG series in subgroups of depressed patients.
- P11:** **B. Ilhan, S. Yagcioclù, P. Ungan** Ocotpus: A Holistics Open –source software application suite for Electrical Source Imaging.
- P12:** **N. Putthanmadam Subramaniyam, O. Väisänen, K. Wendel, J. Malmivuo** Cortical Potential Imaging with Realistic Head Model using L-curve and GCV method.

- P13:** **Z. Tiganj, M. Mboup, C. Pouzat** Eye blink artifacts detection in single channel EEG recordings.
- P14:** **K. Wendel, D. Stolar, J. Malmivuo** Measuring Tissue Thicknesses of the Human Head using Centralised and Normalized Tranjectories.
- P15:** **B. Mijovic, K. Vanderperren, M. De Vos, J.R. Ramautar, N. Novitskiy, B. Vanrumste, P. Stiers, B. Van den Bergh, J. Wagemans, L. Lagae, S. Sunaert, S. Van Huffel** Influence of the Stimulus Onset Asynchrony in fMRI experiment to the Independent Component Analysis Results.
- P16:** **M. Ozgoren, U. Erdogan, O. Bayazit, S. Kocaaslan, N. Gokmen, A. Oniz** The assessment of Brain Functionign in different conscious states via Brain Biophysics Battery.