

## Programme of the CONFERENCE

### Monday 26 March 2007

8.30 *Registration*

9.45 *Opening*: W.G. Sannita

10.00 *Address*: Jordan Pop-Jordanov, COST Action B27

Chairs: T. Poggio, F.T. Arecchi

10.10 Wolf Singer: Oscillations, synchrony and temporal codes in cortical processing

10.50 Henry Abarbanel: Timing in Neural Circuits

11.30 Moshe Abeles: Time and Space Scales for Cortical Activity

12.10 Hans Möhler: Neuronal inhibition and the control of behavior

12.50-14.30 *Lunch*

Chairs: H. Abarbanel, L. Fortuna

14.30 Wlodzimierz Klonowski: Significance of time scale differences in psychophysics

15.10 Maria Concetta Morrone: Space-time in the brain: judging temporal duration during normal vision and during saccadic eye-movements

15.50-16.40 *Poster session with coffee*

Chairs: J.G.R. Jefferys, W.G. Sannita

16.40 Lamberto Maffei: Plasticity in the adult visual system

17.20 Tomaso Poggio: Computations and circuits in the ventral stream of visual cortex

18.00 *Welcome reception*

### Tuesday 27 March 2007

Chairs: J. Hounsgaard, R. Meucci

9.00 Giovanni Berlucchi: Neural bases of corporeal awareness

9.40 Gert Pfurtscheller: Mentally induced neural oscillations used to control wheelchair movement in a virtual environment

10.20-11.00 *Poster session with coffee*

Chairs: E. Ben-Jacob, H. Möhler

11.00 Ljupco Kocarev: Identification and monitoring of neural networks

11.40 Juergen Kurths: Structural and functional cluster of complex brain networks

12.20 Jordan Pop-Jordanov: Neurophysical substrates of mental arousal

13.00-14.30 *Lunch*

Chairs: J. Kurths, L. Maffei

14.30 Jorn Hounsgaard: Spike generation in motoneurons during functional network activity

15.10 John Gruzelier: EEG-neurofeedback for peak performance: evidence and theory

15.50 *Coffee break*

Chairs: M. Abeles, S. Mancuso,

16.20 Frantisek Baluska: Plant Neurobiology Provides a New View of Plants

17.00 Eshel Ben Jacob: Astrocytes regulation of synaptic information transfer

### Wednesday 28 March 2007

Chairs: L. Kocarev, W.G. Sannita

9.00 Luciano Fadiga: Sensorimotor transformations and parieto-frontal circuits: bidirectional modulation of the information flow in the cerebral cortex.

9.40 John G.R. Jefferys: Pathophysiology of network oscillations in the hippocampus

10.20-11.00 *Poster session with Coffee*

11.00-13.00 ROUND TABLE: Panel discussion on the interface between Physics and Neuroscience (Chair: F.T. Arecchi)

13-14.30 *Lunch*

14.30-16.30 *Management Committee Meeting* (chair: Jordan Pop-Jordanov)