INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION

4th Course: MAGNETIC RESONANCE COMBINED WITH ELECTROPHYSIOLOGY AND WITH MOLECULAR AND PHARMACEUTICAL ACTION FOR THE STUDY OF BRAIN FUNCTION

ERICE-SICILY: 21 - 28 MAY 2006

Sponsored by the: • Italian Ministry of Education, University and Scientific Research • Sicilian Regional Government

TOPICS AND LECTURERS

- Conventional and Intermolecular Multiple-Quantum Contrast
- Neural Events Underlying the BOLD Signal: Combined Electrophysiology and fMRI
- Ultra-High Field Functional Imaging and Spectroscopy
- Feasibility of Direct Detection of Neuronal Currents Using MRI
- fMRI and EEG Combination
- Fast Spectroscopic Imaging Methods
- Dynamics of Brain Function by fMRI
- Anatomical and Functional Architecture of the Brain as Seen With Diffusion Tensor MRI
- Hypothesis and Data-Driven Analysis of Functional MRI Series
- Diffusion Tensor Imaging and Brain Physiology
- Imaging Studies of Plasticity and Recovery After Brain Injury
- fMRI Studies on Causality in the Human Brain
- Brain-Computer Interface
- Pharmaceutical Action for the Human Brain Study
- Molecular Probes for the Brain

POETIC TOUCH

According to legend, Erice, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The founder of modern history — i.e. the recording of events in a methodical and chronological sequence as they really happened without reference to mythical causes — the great Thucydides (~500 B.C.), writing about events connected with the conquest of Troy (1183 B.C.) said: «After the fall of Troy some Trojans on their escape from the Achaei arrived in Sicily by boat and as they settled near the border with the Sicilians all together they were named Elymians: their towns were Segesta and Erice.» This inspired Virgil to describe the arrival of the Trojan royal family in Erice and the burial of Anchise, by his son Enea, on the coast below Erice. Homer (~1000 B.C.), Thucydides (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centuries (XIII-XIX) the town of Erice was under the leadership of a local oligarchy, whose wisdom assured a long period of cultural development and economic prosperity which in turn gave rise to the many churches, monasteries and private palaces which you see today.

In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.). Erice is at present a mixture of ancient and medieval architecture. Other masterpieces of ancient civilization are to be found in Erice and the burial of Anchise, by his son Enea, on the coast below Erice. Homer (~1000 B.C.), Thucydides (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centuries (XIII-XIX) the town of Erice was under the leadership of a local oligarchy, whose wisdom assured a long period of cultural development and economic prosperity which in turn gave rise to the many churches, monasteries and private palaces which you see today.

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More information about the «Ettore Majorana» Foundation and Centre for Scientific Culture can be found on the WWW at the following address: http://www.ccsem.infn.it

A. ZICHICHI

EMSCC PRESIDENT AND DIRECTOR OF THE CENTRE

APPLICATIONS

Interested candidates should download the application form from http://centroferrmi-nmr.phys.unirho.it and send it as e-mail attachment to the Director of the School:

Professor Bruno MARAVIGLIA
e-mail: bruno.maraviglia@roma1.infn.it

Applications should arrive by April 30.

• PLEASE NOTE

Participants must arrive in Erice on May 21, not later than 5 pm.

B. MARAVIGLIA

DIRECTOR OF THE SCHOOL