INTERNATIONAL SCHOOL OF PHYSICS AND INDUSTRY

4th Workshop: ELECTRON ACCELERATORS AND FREE ELECTRON LASERS: NEW MICROSCOPES FOR SCIENCE AND INNOVATION

ERICE-SICILY: 24 - 27 OCTOBER 2006

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

PROGRAMME

The development of a fruitful interaction between fundamental physics research and industry is of paramount importance for the progress of a modern country.

The aim of the Workshop is to discuss the opportunities that high brightness photon and electron sources offer to the development of frontier applications in biology, materials science and medicine.

By bringing together scientists, engineers and entrepreneurs, as well as institutional representatives, the Workshop is intended to stimulate an in-depth discussion on possible collaborative projects and focus on the transfer of knowledge between fundamental research and industry.

Contributions by experts from different fields and countries will concentrate on the following topics:

- Free-Electron Lasers
- High brightness electron beams
- Applications of ultra-soft, high brightness X-ray beams
- Applications of particle beams to medicine
- Instrumentation

APPLICATIONS

Participation is by invitation only. Those who are interested to contribute to the Workshop are invited to send a letter to the Director of the Workshop:

Professor Roberto PETRONZIO
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e-mail: distvlsotro@presid.infn.it

specifying:

i) date of birth and present activity;
ii) nationality.

• PLEASE NOTE

Participants must arrive in Erice on 25 October, not later than 12 pm.

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

R. PETRONZIO
DIRECTOR OF THE SCHOOL AND THE WORKSHOP

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 methodic and chronological sequence as they really happened without reference to mythical causes — the great Thucydides (~480 B.C.), writing about events connected with the conquest of Troy (1153 B.C.) said: «After the fall of Troy some Trojans on their escape from the Achaeans arrived in Sicily by boat and as they settled near the border with the Sicilians all together they were named Elymi: 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 Enoe on the coast below Erice. Homer (~1000 B.C.), Theocritus (~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 (~400 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 the neighbourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Agadian Islands — theatre of the decisive naval battle of the first Punic War (~241 B.C.) — suggestive necolithic and paleolithic vestiges are still visible: the grottoes of Favigiana, the carvings and murals of Levanzo. Splendid beaches are to be found at San Vito Lo Capo, Scopello, and Corvino, and a wild and rocky coast around Monte Cofano: all at less than one hour’s drive from Erice.

A. ZICHICHI
EMFSCS PRESIDENT AND DIRECTOR OF THE CENTRE