INTERNATIONAL CONFERENCE ON GETTERING AND DEFECT ENGINEERING IN SEMICONDUCTOR TECHNOLOGY

GADEST '07

ERICE-SICILY: 14 - 19 OCTOBER 2007

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

TOPICS AND LECTURERS

Large diameter crystal growth
Crystalline silicon for solar cells: single crystals, multi-crystalline Si, ribbons, Si thin films on substrates
Silicon-based materials and advanced semiconductor materials (strained Si, SOI, SiGe, SiC, Ge)
Impurities (oxygen, carbon, nitrogen, fluorine, metals) in Si
Modeling/simulation of defects in Si/semiconductors
Defect engineering in microelectronics and photovoltaics
Gettering and passivation techniques
Defect and impurity characterization (physical and electrical)
Si-based Nanostructures (nanocrystals, nanowires, nanodevices)
Silicon-based heterostructures and strain engineering
Silicon-based optoelectronics

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• H. STRUNK, Universität Erlangen, DE
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• B. JONES, University of Exeter, UK
• W. VANDERVORST, Inec, Leuven, BE
• Z. SHI, Suntech, CN
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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 (~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 Elym: 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 (~1200 B.C.), Diodorus (~300 B.C.), Polybios (~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 the neighbourhood at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aegadian Islands — theatre of the decisive naval battle of the first Punic War (246-241 B.C.) — suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and murals of Levanzo.

Splendid beaches are to be found at San Vito Lo Capo, Scopello, and Cornino, and a wild and rocky coast around Monte Cofano: all at less than one hour’s drive from Erice.

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

• PLEASE NOTE
Participants must arrive in Erice on 14 October, not later than 5 pm.

A. ZICHICHI
EMFSC PRESIDENT AND DIRECTOR OF THE CENTRE

A. CAVALLINI
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