3rd Course: ADVANCES IN FUNCTIONAL MATERIALS: FUNDAMENTALS, TECHNOLOGY AND SUSTAINABLE ENERGY PRODUCTION

ERICE-SICILY: 6 – 8 JULY 2021

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PROGRAMME AND LECTURERS

Halide perovskite photovoltaics
• A. ABATE, Università di Napoli Federico II, IT

In situ approaches to unveil structural dynamics in carbon-based electro catalysts
• R. ARRIGO, University of Salford, UK

Cluster formation and reversible aggregation in colloidal dispersions
• T.B.A.R. CASTANEDA-PRIEGO, University of Guanajuato, MX

Advanced carbon-based materials for electrochemical ammonia synthesis at ambient conditions
• S. CHEN, Dalian Institute of Chemical Physics, RPC

Effective metal-based semiconductor nanomaterials for solar photocatalytic hydrogen generation
• L. CLADRIZIA, University of Naples Federico II, IT

Inspired by Biology: From Solvation of Macromolecules to Functional Materials
• V. CONTI NIBALL, University of Messina, IT

Molecular Dynamics approaches for the simulation of interfaces in functional materials
• A. DE NICOLA, Yamagata University, JP

Introduction to neutron scattering
• A. FARAOE, NIST, Gaitherburg, MA, US

In sit investigation of solid-liquid and organic electrolyte interfaces for sustainable fuel production
• M. FAVARO, Institute Solar Fuels, Helmoltz-Zentrum, DE

New trends in molecular magnetism: design and applications at the nanoscale
• M. GALAN-MASCAROS, ICQ Tarragona/ICREA, ES

OLED Activities
• U. KIDO, Yamagata University, JP

Polymer brushes by grafting to reaction. Mechanism and applications
• M. LAUS, East Plmeont University, IT

How does water respond to hard and soft confinement?
• F. MARTELLI, IEM Research Laboratory, UK

Integrated photovoltaic-storage devices using new functional materials for sustainable energy production
• M. MERZHANOV A, Forschungszentrum Jülich GmbH, DE

Design of functionalized colloidal particles for targeted self-assembled structures
• G. MUNAO, University of Messina, IT

Chitosan, nanocomposites as adsorbents for environmental remediation: challenges and opportunities
• S. SALZANO DE LLNA, University of Naples Federico II, IT

Molecular Mechanisms of Soft-Matter Rheology at the Mesoscale
• S. YIP, MIT-DMSE, Cambridge, MA, US

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 Thucy- dides (~550 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 Erimtwo: their town was Segesta and Erice.»

This inspired Virgil to describe the arrival of the Trojan royal family in Erice and the burial of Anchises, by his son Aeneas, on the coast below Erice. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~19 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centu- ries (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 (~750 B.C.), the Gothic Cathedral (~1300 A.D.), Aeneas on the coast below Erice. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~19 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centu- ries (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 medie- val architecture. Other masterpieces of ancient civilization are to be found in the neigh- bourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aega- dian Islands — theatre of the decisive naval battle of the first Punic War (264-241 B.C.) — the most significant part of ancient civilization are to be found in the neigh- bourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aega- dian Islands — theatre of the decisive naval battle of the first Punic War (~264-241 B.C.) —

More information about the «Ettore Majorana» Foundation and Centre for Scientific Culture can be found on the WWW at the following address:
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