INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS

58th Course: **INSTRUMENTS AND TECHNIQUES FOR SATELLITE PROPAGATION CAMPAIGNS. WS ON ALPHASAT ALDO PARABONI Q/V BAND EXPERIMENT**

ERICE-SICILY: 23 – 26 OCTOBER 2016

Sponsored by: • Italian Ministry of Education, University and Scientific Research • Sicilian Regional Government • Europe Union • CNRS • ESA • ASI • Politecnico di Milano • ONERA • CNES

**PROGRAMME AND LECTURERS**

Objectives, design and implementation of Alphasat Aldo Paraboni Ka/Q band scientific experiment

• C. RIVA, Politecnico di Milano, IT

Modelling, simulation and measurements of scintillation due to tropospheric turbulence

• D. VANHOENACKER, Università Catholique de Louvain-la-Neuve, BE

Atmospheric numerical weather systems for assessment of propagation conditions

• F. S. MARZANO, University of Rome La Sapienza, IT

The Italian program for high frequency space communication systems

• G. CODISPOTI, ASI, Roma, IT

The ESA program for Alphasat Aldo Paraboni Q/V band experiment

• J. RIVERA CASTRO, ESA/ESTEC, Noordwijk, NL

Algorithms and systems for the data processing of radiowave propagation campaigns

• A. GRAZIANI, Università Catholique de Louvain-la-Neuve, BE

An overview of Joanneum campaigns for radiowave propagation measurements

• M. SCHÖNENHUBER, Joanneum Research, Graz, AT

The use of experimental data for development and testing of radiowave propagation models

• L. CASTANET, ONERA, Palaiseau, FR

Accuracy of Beacon measurements receivers and performances of antenna tracking systems

• A. ROCHA, Universidade Aveiro, PT

Use of remote sensing and NWP data for data calibration

• L. LUINI, Politecnico di Milano, IT

Playing for a test-bed of an European network of ALPHASAT terminals

• S. VENTOURAS, RAL/STFC, Didcot, UK

Objectives, design and implementation of Alphasat Aldo Paraboni Ka/Q band scientific experiment

• M. RUGGERI, University of Tor Vergata, Roma, IT

**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 Achaean 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 Enea, 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 (~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. On the Aegadian Islands — theatre of the decisive naval battle of the first Punic War (264-241 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 Comino, and a wild and rocky coast around Monte Cofano: all at less than one hour’s drive from Erice.

**PLEASE NOTE**

Participants should arrive in Erice on October 23, not later than 5 pm.

More information about the other activities of the "ETTORE MAJORANA" FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE can be found on the WWW at the following address:

http://www.ecsem.infn.it

**APPLICATIONS**

Persons wishing to attend the Course should apply in writing to the Director of the Course:

Dr. Lorenzo LUINI
Politecnico di Milano, DEIB - Via Ponzio 34/5 - 20133 Milano, IT
Tel +39.02.23936393 – Fax +39.02.23934143

They should specify: i) full name(s), address, age, nationality; ii) academic qualifications and degree; iii) present position and place of work; iv) current research activity; v) list of publications.