



«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

52nd Workshop: NONLINEAR OPTIMIZATION, VARIATIONAL INEQUALITIES AND EQUILIBRIUM PROBLEMS

ERICE-SICILY: 2 – 10 JULY 2010

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

PROGRAMME AND LECTURERS

Constrained and unconstrained optimization

Global optimization

Derivative-free methods

Nonsmooth optimization

Nonlinear complementarity problems

Variational inequalities

Equilibrium problems

Game theory

Bilevel optimization

Neural networks and optimization

Applications of nonlinear optimization

- E. G. BIRGIN, University of Sao Paulo, BR
- F. FACCHINEI, "Sapienza" Università di Roma, IT
- C.A. FLOUDAS, Princeton University, NJ, US

- D. GAO, Virginia Tech, VA, US
- D. KLATTE, University of Zurich, CH
- E.K. LEE, Georgia Institute of Technology, GA, US
- M. LOCATELLI, Università di Torino, IT
- J. MORGAN, Università di Napoli "Federico II", IT
- E.A. NURMINSKI, Far Eastern National University, RU
- J-S. PANG, Rensselaer Polytechnic Institute, Troy, NY, US
- M.J.D. POWELL, University of Cambridge, UK
- F. RENDL, University of Klagenfurt, AT
- N.V. SAHINIDIS, Carnegie Mellon, PA, US
- K. SCHEINBERG, Columbia University, NY, US
- M. SCIANDRONE, Università di Firenze, IT
- V. SIMONCINI, Università di Bologna, IT
- H. WOLKOWICZ, University of Waterloo, CDN
- Y-X. YUAN, Chinese Academy of Sciences, Beijing, CN

PURPOSE OF THE WORKSHOP

In the tradition of these meetings, the purpose of the Workshop is to review and discuss recent advances in the development of methods and algorithms for Nonlinear Optimization, Variational Inequalities, Equilibrium Problems and strictly related fields of research. The Workshop will provide a forum for fruitful interaction among scientists in the field, with a particular focus on innovative methods and applications in Engineering, Economics, Biology and in other sciences. In fact, Nonlinear optimization represent a fundamental tool for tackling problems arising in these areas.

The Workshop will include invited lectures (1 hour) and contributed lectures (30 min.). The invited lectures have been selected with the aim of representing different and innovative perspectives on the topics of the Workshop, with a wide international presence and an adequate national attendance. Contributed lectures will be selected by the Scientific Committee on the basis of the abstract which will be submitted. Particular attention will be placed on innovative proposals and promising research developments.

APPLICATIONS

Persons wishing to attend the Workshop should apply by e-mail to:

- Professor Gianni DI PILLO
Dipartimento di Informatica e Sistemistica "A. Ruberti"
Università di Roma "Sapienza"
Via Ariosto, 25 – 00185 ROMA, Italy
e-mail: Erice2010@dis.uniroma1.it

They should specify:

- date and place of birth, together with current nationality;
- affiliation;
- address, e-mail address.

PLEASE NOTE

Participants must arrive on July 2, not later than 7 pm.

Closing Date for Applications: 15 April, 2010

G. DI PILLO
DIRECTOR OF THE WORKSHOP

F. GIANNESI
DIRECTOR OF THE SCHOOL

A. ZICHICHI
EMFCS PRESIDENT AND DIRECTOR OF THE CENTRE

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 Sicanians 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 (Greek). 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 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>

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