«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



SUMMARY OF THE 2012 COURSES — ERICE



All Courses are sponsored by the World Federation of Scientists (WFS), the Sicilian Regional Government (SRG), the Italian Ministry of Education, University and Scientific Research and the Galileo Galilei Foundation (GGF). Some of the Courses are under the sponsorship of the Italian Ministry of Foreign Affairs, the Italian Ministry of Health, the North Atlantic Treaty Organization (NATO), the American National Science Foundation (NSF), the Italian National Research Council (CNR), the Weizmann Institute of Science, the European Physical Society (EPS), the Italian National Institute for Nuclear Physics (INFN), the World Wildlife Fund (WWF), the Commission of the European Communities (CEC), some of the main Italian and foreign Universities and Research Centres, and the World Laboratory

INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»

Directors: G.M. FARA – G. GIAMMANCO 41st Course: *Emergencies in Public Health*

Directors: S. CALDERALE - G.M. FARA - G.B. ORSI

11 – 15 April 2012

• INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS

Directors: A.N. CHESTER - S. MARTELLUCCI

51st Workshop: Photoacoustic and Photothermal Phenomena. Focus on Biomedical and Nanoscale Imaging and NDE

Directors: R. LI VOTI – A. MANDELIS

19 – 26 April 2012

• INTERNATIONAL SCHOOL OF MEDICAL SCIENCES

145th Course: Geriatric Oncology, an update and future perspectives

Director: I. CARRECA 27 – 29 April 2012

• INTERNATIONAL MEETING ON ALZHEIMER'S DISEASE: WHERE WE STAND AND WHERE WE GO

Chairman: C. CARUSO

2 - 6 May 2012

• INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION

Director: B. MARAVIGLIA

10th Course: Brain Function Investigation by Magnetic Resonance, Electrophysiology, and Molecular Imaging

Directors: F. GIOVE - B. MARAVIGLIA

6 – 13 May 2012

• INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

Director: F. GIANNESSI

58th Workshop: Variational Analysis and Applications

Directors: N. FUSCO - A. MAUGERI - B.S. MORDUKHOVICH

14 - 22 May 2012

INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

38th Workshop: Global Challenges for Seismological Data Analysis

Directors: M. COCCO – A. MICHELINI – T. VAN ECK – J.-P. VILOTTE

25 - 30 May 2012

• INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY – Director: T.L. BLUNDELL

45th Course: *Present and Future Methods for Biomolecular Crystallography*

Directors: V.Y. LUNIN - R.J. READ - A. URZHUMTSEV

31 May - 10 June 2012

• INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE

Directors: O. JARDETZKY - J.D. PUGLISI

11th Course: Frontiers of Biophysics and Structural Biology

Directors: J.D. PUGLISI – E. VIANI

11 - 21 June 2012

INTERNATIONAL SCHOOL OF ETHOLOGY

Directors: D. MAINARDI - S. PARMIGIANI

28th Workshop: The Evolution of Morality: the Biology and Philosophy of Human Conscience

Directors: F. DE WAAL - S. PARMIGIANI - T. PIEVANI

17 – 22 June 2012

INTERNATIONAL SCHOOL OF PHARMACOLOGY

Director: G.P. VELO

78th Workshop: *The Future of European Clinical Pharmacology*

Directors: J.K. ARONSON - G.P. VELO

18 – 22 June 2012

• INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS – Director: A. ZICHICHI

50th Course: What we would like LHC to give us

Directors: G. 't HOOFT - A. ZICHICHI

23 June - 2 July 2012

INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY

Director: B. DI BARTOLO

29th Workshop: Fluorescence Spectroscopy 50 years after the appearance of the Judd-Ofelt Theory

Director: B. DI BARTOLO

3 - 10 July 2012

• INTERNATIONAL SCHOOL OF COSMIC RAY ASTROPHYSICS «MAURICE M. SHAPIRO»

18th Course: A new era in Particle Astrophysics: New instruments, new results, new understanding Directors: J.R. HÖRANDEL – T.S. STANEV – J.P. WEFEL

4 - 10 July 2012

INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS

Director: G. BENEDEK

55th Course: Phase Separation and Superstripes in High Temperature Superconductors and Related Materials

Director: A. BIANCÓNI

11 - 17 July 2012

• INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS

Directors: A.N. CHESTER - S. MARTELLUCCI

52nd Course: Advanced on Nanophotonics IV

Directors: M. BERTOLOTTI – F.A. BOVINO – C. SIBILIA

17 – 29 July 2012

• INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS

Director: G. BENEDEK

56th Course: Materials for Renewable Energy

Directors: D. GINLEY - J. POATE - E. RIMINI - A. SLAOUI - A. TERRASI

18 - 28 July 2012

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS

Directors: P. HÄNGGI - F. MARCHESONI

1st Course: Energy Harvesting at Micro- and Nanoscales

Directors: L. GAMMAITONI - F. MARCHESONI - L. WORSCHECH

24 – 29 July 2012

• INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS

Director: G. BENEDEK

57th Course: *Epioptics-12*

Directors: A. CRICENTI – J. McGUILP – T. RASING

24 - 30 July 2012

INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION

Directors: A.M. BATTRO - K.W. FISCHER

7th Course: Teaching: A new frontier of the Neurocognitive Sciences, Education and Culture

Directors: A.M. BATTRO - K.W. FISCHER - S. STRAUSS

30 July - 4 August 2012

INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION

Director: E. IAROCCI 3rd Course: *Nanotechnology* Director: E. IAROCCI 31 July – 4 August 2012

EXTREME ENERGY EVENTS – EEE PROJECT

Director: A. ZICHICHI

3rd Course: Reports and Future Developments

5 – 10 August 2012

ERICE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI

45th Session – Co–Chairman: T.D. LEE

19 - 24 August 2012

• INTERNATIONAL SCHOOL OF LIQUID CRYSTALS

Director: C. ZANNONI

19th Course: Italian-Brazilian Liquid Crystals

Directors: A. D'ALESSANDRO - L.R. EVANGELISTA - P. PASINI

26 - 30 August 2012

• INTERNATIONAL SCHOOL OF ETHOLOGY

Directors: D. MAINARDI - S. PARMIGIANI

29th Workshop: Mirror Neurons: New Frontiers 20 Years after their Discovery

Directors: P.F. FERRARI – G. RIZZOLATTI

30 August – 7 September 2012

• INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS

Directors: A.N. CHESTER - S. MARTELLUCCI

53rd Course: Molecular Physics and Plasmas in Hypersonics - II

Director: M. CAPITELLI 8 – 15 September 2012

WORKSHOP OF THE JRC-IAEC STEERING COMMITTEE

Chairman: R. CACIUFFO 10 – 11 September 2012

• INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS

Directors: A. FAESSLER - J. WAMBACH

34th Course: Probing the Extremes of Matter with Heavy Ions

Directors: A. FAESSLER - J. WAMBACH

16 – 24 September 2012

• INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

39th Course: Understanding Geological Systems for Geothermal Energy

Directors: F. QUATTROCCHI - A. MANZELLA

25 September – 1 October 2012

• INTERNATIONAL SCHOOL OF CARDIOLOGY

Director: F. FEDELE

16th Course: E-Cardiology Conference of Mediterranean

Director: F. FEDELE 2 – 4 October 2012

INTERNATIONAL SCHOOL OF IUS COMMUNE

Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON 32nd Course: *The Legal Status of Jews and Muslims in the Ius Commune*

Director: J. TOLAN 5 – 11 October 2012

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS

Directors: P. HÄNGGI – F. MARCHESONI

2nd Course: The Physics of Small Artificial and Bio-Molecular Systems

Directors: P. JUNG - S. GROSS

12 - 17 October 2012

CONSULTA PERMANENTE DELLA SOCIETÀ ITALIANA DI CARDIOLOGIA

3nd Course – Chairman: S. NOVO

18 - 21 October 2012

HIGHLY SPECIALIZED SEMINARS «EUGENE P. WIGNER»

10th Seminar: Meeting of the European Research Council

Director: H. NOWOTNY 20 – 24 October 2012

HIGHLY SPECIALIZED SEMINARS «EUGENE P. WIGNER»

11th Seminar: Earthquakes Early Warning from Space

Directors: R. BATTISTON – S. XUHUI

21 - 24 October 2012

• INTERNATIONAL WORKSHOP ON TECHNOLOGY AND INNOVATION (EPS-TIG)

1st Workshop: Nuclear and Subnuclear Physics Technologies and Innovations Leading to Medical and Industrial Applications - highlights - review - evaluation - outlook

Chairman: H. WENNINGER

21 – 25 October 2012

ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE»

6th Workshop: Sport is Health

Director: F.P. SİELI 25 – 29 October 2012

• INFN ELOISATRON PROJECT

Director: A. ZICHICHI

55th Course: High Power Sources and Targets for Anti-Neutrino Production

Director: W.A. BARLETTA 30 October – 5 November 2012

INTERNATIONAL SCHOOL OF DERMATOLOGY

Directors: G. BURG – B. GIANNOTTI 6th Course: *Hot Spot in Plastic Dermatology*

Director: L. ZICHICHI 8 – 11 November 2012

• INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»

Directors: G.M. FARA - G. GIAMMANCO

42nd Course: Hygiene in Food and Dietary Habits: from Production to Consumption

Director: A. NASTASI 11 – 15 November 2012

• INTERNATIONAL SCHOOL OF MEDICAL SCIENCES

146th Course: Advances in Epileptology. From Basic Science to Clinical Approach

Director: O. DANIELE 17 – 24 November 2012

INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»

Director: F. BERSANI

6th Course: Static and Low Frequency Magnetic Fields: Physical Concepts, Biological Effects, Mechanisms and Limit Setting

Directors: J. JUUTILAINEN – F. PRATO

25 November – 1 December 2012

• EXTREME ENERGY EVENTS – EEE PROJECT

Director: A. ZICHICHI

4th Course: Detailed Reports and Perspective for Future Actions

2 – 12 December 2012

More information about the activities of the Ettore Majorana Foundation can be found on the WWW at the following address:

http://www.ccsem.infn.it