

«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



SUMMARY OF THE 2016 COURSES — ERICE



All Courses are sponsored by the World Federation of Scientists (WFS), the Sicilian Regional Government (ERS), 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

- CONFERENCE FINANCIAL STATEMENTS: THE TRANSPOSITION OF DIRECTIVE 2013/14 THROUGH THE D. LGS N. 139/2015
Chairman: G. VIVIANO
30 March 2016
- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION
Directors: I.S. ANDERSON – C. ANDREANI – R.G.M. CACIUFFO
2nd Course: *Designing and building a neutron instrument*
Directors: K. ANDERSEN – K. HERWIG
31 March – 9 April 2016
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D’ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO
48th Course: *Two-ways communication in the field of vaccination*
Directors: L.R. BIASIO – G. CORSELLO – C. SIGNORELLI
5 – 9 April 2016
- INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»
Director: F. BERSANI
8th Course: *Electromagnetic fields and nervous system: Biological effects, biophysical mechanisms, methods and medical applications*
Directors: V. DI LAZZARO – B. VEYRET
10 – 17 April 2016
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
151st Course: *Diabetes and its complications*
Directors: G. ALLOTTA – A. CERIELLO
11 – 14 April 2016
- INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
43rd Course: *Nanoscale biophysics: Focus on methods and techniques*
Directors: P. BIANCHINI – A. DIASPRO
17 – 24 April 2016
- INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION
Director: B. MARAVIGLIA
12nd Workshop: *Investigating brain function and structure by advanced magnetic resonance approaches*
Directors: F. GIOVE – B. MARAVIGLIA
30 April – 6 May 2016
- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
83rd Workshop: *Medication errors*
Directors: J.K. ARONSON – P. MINUZ – G.P. VELO
2 – 6 May 2016
- CONFERENCE DIRECT TAX RETURN 2016: NEWS AND CRITICAL ISSUES
Chairman: G. VIVIANO
6 May 2016

- INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE
 Director: J.D. PUGLISI
 14th Course: *The challenges of biophysics and structural biology*
 Directors: J.D. PUGLISI – E. VIANI PUGLISI
 7 – 17 May 2016
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
 Directors: P. HÄNGGI – F. MARCHESONI
 7th Course: *Quantum thermodynamics*
 Directors: M. CAMPISI – R. FAZIO – P. HÄNGGI
 8 – 14 May 2016
- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES» – INTERNATIONAL SCHOOL OF ETHOLOGY
 Directors: P.F. FERRARI – G. RIZZOLATTI – D. MAINARDI – S. PARMIGIANI
 2nd and 38th Course: *Animal and human emotions*
 Directors: F. DE WAAL – P.F. FERRARI
 17 – 22 May 2016
- INTERNATIONAL SCHOOL ON TRENDS IN FREE ELECTRON LASER PHYSICS
 Directors: W.A. BARLETTA – R. BONIFACIO – M. FERRARIO
 17 – 23 May 2016
- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
 Director: T.L. BLUNDELL
 49th Course: *High-pressure crystallography: Status artis and emerging opportunities*
 Directors: F.P.A. FABBIANI – M. GUTHRIE – J.B. PARISE
 27 May – 5 June 2016
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
 Director: G. BENEDEK
 68th Workshop: *The free electron laser for ultrafast imaging and spectroscopy at the nanoscale*
 Directors: G. ONIDA – G. ROSSI
 5 – 11 June 2016
- INTERNATIONAL SCHOOL OF NANOMEDICINE
 Directors: M. FERRARI – M. MASSERINI
 1st Course: *Design and development of advanced nanomedicines to overcome biological barriers and to treat severe diseases*
 Directors: G. BENEDEK – M. MASSERINI
 6 – 10 June 2016
- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
 Director: A. ZICHICHI
 54th Course: *The new physics frontiers in the LHC–2 era*
 Directors: G. 't HOOFT – A. ZICHICHI
 14 – 23 June 2016
- INTERNATIONAL SCHOOL OF CARDIOLOGY
 Directors: A. BRANZI – F. FEDELE
 17th Workshop: *Echocardiology and cardiac imaging*
 Director: S. NOVO
 25 – 27 June 2016
- INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION
 Director: E. IAROCCI
 7th Course: *Fundamental science: From cutting-edge technologies to the heart of society*
 Directors: P. CAMPANA – F. TURONE
 25 – 30 June 2016
- INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA»
 Director: F. GIANNESI
 66th Workshop: *Advances in convex analysis and optimization*
 Directors: A. BARBAGALLO – H. FRANKOWSKA – G. MOSCARIELLO
 5 – 12 July 2016
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
 Director: G. BENEDEK
 69th Course: *Materials for energy and sustainability*
 Directors: D. CAHEN – L. CIFARELLI – D. GINLEY – A. SLAOUY – A. TERRASI – F. WAGNER
 12 – 20 July 2016

- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
 Director: G. BENEDEK
 70th Workshop: *TeraHz physics*
 Directors: G. SCAMARCIO – M.S. VITIELLO
 16 – 23 July 2016
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
 Director: G. BENEDEK
 71st Workshop: *Delocalized electrons in atomic and molecular nanoclusters*
 Directors: K. HANSEN – V.V. KRESIN
 22 – 28 July 2016
- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION
 Directors: I.S. ANDERSON – C. ANDREANI – R.G.M. CACIUFFO
 3rd Course: *Water and the water systems*
 Directors: R. CAR – F. MALLAMACE
 22 – 31 July 2016
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
 Director: G. BENEDEK
 72nd Workshop: *Epioptics*
 Director: A. CRICENTI
 24 – 30 July 2016
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
 Directors: P. HÄNGGI – F. MARCHESONI
 8th Course: *Quantum interfaces with nano-optomechanical devices*
 Directors: K. LEHNERT – D. VITALI
 31 July – 5 August 2016
- INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
 Director: B. DI BARTOLO
 34th Workshop: *Advances in luminescence research*
 Director: B. DI BARTOLO
 1 – 7 August 2016
- INTERNATIONAL SCHOOL OF COSMIC RAY ASTROPHYSICS «MAURICE M. SHAPIRO»
 20th Course: *Particle, gamma-ray and neutrino astrophysics in the 21st Century*
 Directors: J.R. HÖRANDEL – T.S. STANEV – J.P. WEFEL
 1 – 7 August 2016
- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
 49th Session – Co-Chairman: T.D. LEE
 19 – 24 August 2016
- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
 Director: A. ZICHICHI
 Special Seminar: *Unexpected results from AMS*
 Chair: S.C.C. TING – A. ZICHICHI
 25 – 31 August 2016
- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
 Directors: P.F. FERRARI – G. RIZZOLATTI
 3rd Course: *Early experiences and sensitive periods in developments*
 Directors: P.F. FERRARI – N. FOX – C. NELSON – C. ZEANAH
 31 August – 5 September 2016
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
 Directors: P. HÄNGGI – F. MARCHESONI
 9th Course: *GEM – green energy management*
 Directors: C. LUCHERONI – S. STEFANI
 2 – 13 September 2016
- INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION
 Directors: A.M. BATTRO – K.W. FISCHER
 11th Course: *Brain to brain communication*
 Directors: A.M. BATTRO – U. HASSON
 7 – 13 September 2016

- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS
Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
38th Course: *Nuclear matter under extreme conditions – relativistic heavy-ion collisions*
Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
16 – 24 September 2016
- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
84th Workshop: *Pharmacovigilance 3.0: Do we need a new Erice declaration?*
Directors: R. EDWARDS – R. LEONE – H. LE LOUET – U. MORETTI – G.P. VELO
25 September – 1 October 2016
- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS
Director: C. ZANNONI
22nd Course: *Photonic integration: Advanced materials, new technologies and applications*
Directors: P. PASINI – D. SELLERI – C. ZANNONI
25 September – 1 October 2016
- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
Directors: P.F. FERRARI – G. RIZZOLATTI
4th Course: *Genomic imprinting, epigenetics and physiological functions*
Directors: A. FERGUSON-SMITH – G. KELSEY – A. ISLES – V. TUCCI
2 – 7 October 2016
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
10th Course: *Exploring and quantifying rough free energy landscapes*
Directors: M. PARRINELLO – G.A.VOTH
7 – 12 October 2016
- INTERNATIONAL SCHOOL OF IUS COMMUNE
Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON
36th Course: *Repression and tolerance in Medieval and Modern Europe*
Directors: M. BELLOMO – O. CONDORELLI
7 – 12 October 2016
- INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
39th Workshop: *The symbolic animal: Evolution and neuroethology of aesthetic*
Directors: L. FUSANI – V. GALLESE
15 – 19 October 2016
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
57th Course: *Photoacoustic and photothermal phenomena focus on biomedical and nanoscale imaging and NDE*
Directors: R. LI VOTI – A. MANDELIS
19 – 26 October 2016
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
58th Course: *Instruments and techniques for satellite propagation campaigns – WS on Alphasat Aldo Paraboni Q/V band experiment*
Directors: L. CASTANET – L. LUINI – A. MARTELLUCCI
19 – 26 October 2016
- ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE»
10th Workshop: *Ageing well with sports*
Director: F.P. SIELI
27 – 29 October 2016
- INFN ELOISATRON PROJECT
Director: A. ZICHICHI
59th Workshop: *High power cyclotrons for neutrino physics*
Director: W.A. BARLETTA
28 October – 2 November 2016
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
152nd Course: *Pancare European network of survivors after childhood cancer*
Directors: R. HAUPT – L. HJORTH – L. MASSIMO – M. JANKOVIC
31 October – 3 November 2016

- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES» – INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: P.F. FERRARI – G. RIZZOLATTI – D. MAINARDI – S. PARMIGIANI
5th and 40th Course: *Translational neuroscience and mental disorders: Bridging the gap between animals models and human condition*
Directors: C. BLANCHARD – P.F. BRAIN – S. PARMIGIANI – J. RODGERS
4 – 9 November 2016
- INTERNATIONAL SCHOOL OF DERMATOLOGY
Directors: G. BURG – B. GIANNOTTI
10th Course: *Skin cancer: Standards and hits for the best practice*
Directors: N. PIMPINELLI – L. ZICHICHI
10 – 13 November 2016
- INTERNATIONAL SCHOOL OF CARDIOLOGY
Directors: A. BRANZI – F. FEDELE
18th Course: *Update in echocardiography*
Director: F. FEDELE
14 – 19 November 2016
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
153rd Course: *Geriatric oncology and rare tumours*
Director: I. CARRECA
20 – 24 November 2016
- INTERNATIONAL SCHOOL OF UROLOGY AND NEPHROLOGY
Director: C. PAVONE
17th Course: *Flexible ureteroscopy and lower tract endourology*
Directors: L. DEFIDIO – A. PATEL – C. PAVONE
27 – 30 November 2016
- INTERNATIONAL SCHOOL OF BRAIN CELLS AND CIRCUITS «CAMILLO GOLGI»
Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT
2nd Course: *The cerebellum inside-out: Cells, circuits and functions*
Directors: E. D'ANGELO – C. DE ZEEUW – C. GANDINI WHEELER-KINGSHOTT
1 – 5 December 2016
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
154th Course: *Neonatology*
Directors: G. CORSELLO – D. LO CASCIO
3 December 2016
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO
49th Course: *Epidemiology for planning, implementation and evaluation in public health*
Directors: F. DONATO – G. GIAMMANCO
3 – 7 December 2016
- INTERNATIONAL SCHOOL OF CARDIOLOGY
Directors: A. BRANZI – F. FEDELE
19th Workshop: *Heart and lung interactions*
Director: S. NOVO
8 – 10 December 2016
- INTERNATIONAL SCHOOL OF GERONTOLOGY AND GERIATRICS «GIUSEPPE BARBAGALLO-SANGIORGI»
12th Course: *Geriatrics*
Director: M. BARBAGALLO
8 – 11 December 2016

**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>**