

«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 2017 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 Enrico Fermi Centre, 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 MEDICAL SCIENCES
153rd Course: *Neuroepidemiology: methods and clinical applications*
Directors: M. D'AMELIO – P. RAGONESE – W.A. ROCCA – G. SAVETTIERI
3 – 9 March 2017
- CONFERENCE ON THE NEW FINANCIAL STATEMENT AS A BUSINESS COMMUNICATION TOOL
Chairman: G. VIVIANO
7 March 2017
- INTERNATIONAL SCHOOL OF PARTICLE ACCELERATORS «KJELL JOHNSEN, GUSTAV VOSS AND EDMUND WILSON»
Director: T.M. TAYLOR
3rd Course: *Beam injection, extraction and transfer*
Directors: R. BAILEY – B. HOLZER
10 – 19 March 2017
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
59th Course: *The frontiers of attosecond and ultrafast X-ray science*
Directors: L. DI MAURO – A. DOMARACKA – M. NISOLI
19 – 28 March 2017
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO
50th Course: *Urban health*
Directors: D. D'ALESSANDRO – S. CAPOLONGO
29 March – 2 April 2017
- INTERNATIONAL SCHOOL OF NANOMEDICINE
Directors: M. FERRARI – M. MASSERINI
2nd Course: *New trends in nanomedicine*
Directors: M. FERRARI – M. MASSERINI
8 – 13 April 2017
- INTERNATIONAL SCHOOL OF CARDIAC SURGERY
Director: U.F. TESLER
7th Course: *Imaging and the heart*
Directors: L.P. BADANO – M. PEPI – J.R. PEPPER – U.F. TESLER
9 – 14 April 2017
- INFN ELOISATRON PROJECT
Director: A. ZICHICHI
59th Workshop: *High power cyclotrons for neutrino physics*
Director: W.A. BARLETTA
19 – 25 April 2017
- INTERNATIONAL SCHOOL ON FUSION REACTOR TECHNOLOGY
Director: S. MARTELLUCCI
16th Course: *Diagnostics and technology developments in view of iter and demo*
Director: D. MAZON
28 April – 4 May 2017

- INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA»
Directors: F. GIANNESI – M. THÉRA
67th Course: *Stochastic methods in game theory*
Directors: J. RENAULT – M. SCARSINI – R. SMORODINSKY
5 – 13 May 2017
- INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA»
Directors: F. GIANNESI – M. THÉRA
68th Course: *Graph theory, algorithms and applications*
Directors: R. CERULLI – A. GOLDBERG – G.F. ITALIANO – R.E. TARJAN
5 – 13 May 2017
- INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
44th Course: *Biophysics of channels and transporters*
Directors: A. ACCARDI – M. PUSCH – P. TAMMARO
14 – 20 May 2017
- INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE
Director: J.D. PUGLISI
15th Course: *Biophysics and molecular structure*
Directors: J.D. PUGLISI – E. VIANI PUGLISI
20 – 28 May 2017
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
11st Course: *Frontiers in water biophysics*
Directors: A. CESARO – L. COMEŽ – G. FRANZESE
22 – 28 May 2017
- 7th CONFERENCE ON CENTRO FERMI PROJECTS – THE EEE PROJECT – SCIENCE IN THE HEART OF THE YOUNG
Directors: L. CIFARELLI – A. ZICHICHI
29 – 31 May 2017
- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
50th Course: *Integrative structural biology*
Directors: J.L. MARTIN – E. YVONNE JONES
2 – 11 June 2017
- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
Director: A. ZICHICHI
55th Course: *Highlights from LHC and the other frontiers of physics*
Directors: G. 't HOOFT – A. ZICHICHI
14 – 23 June 2017
- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
Directors: P.F. FERRARI – G. RIZZOLATTI
6th Course: *Different elements of primate neural networks in the connectome era*
Directors: E. BORRA – K. ROCKLAND
26 – 30 June 2017
- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION
Directors: C. ANDREANI – R.G.M. CACIUFFO – R. MCGREEVY
4th Course: *Neutron precession techniques*
Directors: P. FALUS – K. HABICHT
30 June – 9 July 2017
- INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION
Director: E. IAROCCI
8th Course: *Unveiling the universe: When science hits the news*
Directors: P. CAMPANA – C. DI GIORGIO
1 – 6 July 2017
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
60th Course: *Laser-driven sources of high energy particles and radiation*
Directors: R.W. ASSMAN – L.A. GIZZI
9 – 19 July 2017

- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS
 Director: C. ZANNONI
 23rd Course: *Liquid crystal modelling and simulations: A comprehensive approach*
 Directors: P. BISCARI – A. DI CARLO – P. PASINI – C. ZANNONI
 13 – 19 July 2017
- INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
 Director: B. DI BARTOLO
 35th Course: *Quantum nano-photonics*
 Directors: B. DI BARTOLO – S. GAPONENKO
 20 July – 4 August 2017
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
 Directors: P. HÄNGGI – F. MARCHESONI
 12nd Course: *X-UV Time resolved spectroscopy and ab-initio methods*
 Directors: M. CORENO – R. GUNNELLA
 22 – 28 July 2017
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
 Directors: P. HÄNGGI – F. MARCHESONI
 13rd Course: *Model theory of modules, algebras and categories*
 Directors: A. FACCHINI – S. L'INNOCENTE – M. TRÉSSL
 28 July – 2 August 2017
- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
 Chairman: A. ZICHICHI
 50th Session – Co-Chairman: T.D. LEE
 18 – 24 August 2017
- INTERNATIONAL SCHOOL OF SCIENCE EDUCATION
 Director: P. LÉNA
 1st Course: *Climate change: A challenge for science education*
 Directors: P. LÉNA – E. PASQUINELLI
 1 – 7 September 2017
- INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION
 Directors: A.M. BATTRO – K.W. FISCHER
 12nd Course: *Neuroscience and poverty*
 Directors: A.M. BATTRO – S. LIPINA
 1 – 7 September 2017
- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS
 Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
 39th Course: *Neutrinos in cosmology, in astro, in particle and in nuclear physics*
 Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
 16 – 24 September 2017
- INTERNATIONAL SCHOOL OF PHARMACOLOGY
 Directors: P. MINUZ – G.P. VELO
 85th Workshop: *Adventures in the lipidome*
 Directors: G. FITZGERALD – P. MINUZ – C. PATRONO – G.P. VELO
 26 – 30 September 2017
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
 Directors: A.N. CHESTER – S. MARTELLUCCI
 61st Course: *Hypersonic meteoroid entry physics*
 Directors: M. CAPITELLI – G. COLONNA – A. LARICCHIUTA
 3 – 8 October 2017
- INTERNATIONAL SCHOOL OF CARDIOLOGY
 Directors: A. BRANZI – F. FEDELE
 19th Workshop: *Echocardiography*
 Directors: F. FEDELE – S. NOVO
 9 – 12 October 2017
- ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE»
 11st Workshop: *Grow up healthy with sport*
 Director: F.P. SIELI
 12 – 15 October 2017

- INTERNATIONAL SCHOOL OF IUS COMMUNE
Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON
37th Course: *Migrations, Law and Religions in Medieval and Modern Ages*
Directors: O. CONDORELLI – F. MARTINO
12 – 16 October 2017
- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
Directors: P.F. FERRARI – G. RIZZOLATTI
7th Workshop: *From activity to interactivity: Harnessing early adaptive neuroplasticity for intervention in atypical development*
Directors: P.F. FERRARI – A. GUZZETTA – R. MONTIROSSO – L. MURRAY
17 – 22 October 2017
- INTERNATIONAL SCHOOL OF UROLOGY AND NEPHROLOGY
Director: C. PAVONE
18th Course
Directors: G. CONTI – G. SICA
23 – 27 October 2017
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
14th Course
Director: F. MARCHESONI
28 October – 3 November 2017
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D’ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO
51st Course: *Literacy, emotions and evidence: three elements for an effective communication in public health*
Directors: L.R. BIASIO – A. CARDUCCI – P.L. LOPALCO
3 – 9 November 2017
- INTERNATIONAL SCHOOL OF ETHOLOGY «DÁNILO MAINARDI»
Director: S. PARMIGIANI
41st Course: *Theory and methods for observing and measuring dog’s social behaviour*
Directors: S. PARMIGIANI – E. PRATO PREVIDE – P. VALSECCHI
11 – 16 November 2017
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
Directors: A. ZICHICHI – I. CARRECA
154rd Course: *Oncology and Geriatry: From bench to bedside*
Directors: I. CARRECA – C. CARUSO – A. GIORDANO – A. RUSSO
24 – 26 November 2017
- INTERNATIONAL SCHOOL OF BRAIN CELLS AND CIRCUITS «CAMILLO GOLGI»
Directors: E. D’ANGELO – C. GANDINI WHEELER-KINGSHOTT
3rd Course: *From cell physiology to integrated brain signals and emerging brain functions*
Directors: E. D’ANGELO – C. GANDINI WHEELER-KINGSHOTT
29 November – 3 December 2017
- 8th CONFERENCE ON CENTRO FERMI PROJECTS – THE EEE PROJECT – SCIENCE IN THE HEART OF THE YOUNG
Directors: L. CIFARELLI – A. ZICHICHI
6 – 8 December 2017
- INTERNATIONAL SCHOOL OF THORACIC MEDICINE
10th Course: *Interstitial lung diseases*
Director: C. VANCHERI
9 – 14 December 2017

**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>**