

«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 2015 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

- INTERNATIONAL CONFERENCE ON FUNDAMENTAL PROBLEMS IN QUANTUM PHYSICS
Directors: A. BASSI – C. CURCEANU
22 – 28 March 2015
- INTERNATIONAL SCHOOL OF STRUCTURAL AND MOLECULAR ARCHAEOLOGY «HUBERT CURIEN»
Director: G. TSOUCARIS
4th Course: *The materiality of artistic creation: Weaving visual culture and chemistry*
Directors: M. CONKEY – P. WALTER
7 – 13 April 2015
- INTERNATIONAL SCHOOL OF UROLOGY AND NEPHROLOGY
Director: C. PAVONE
16th Course: *Advances in urology and nephrology*
Directors: G.N. CONTI – G. SICA
14 – 19 April 2015
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO
47th Course: *Adapted physical activity in sport, wellness and fitness: New challenges for prevention and health promotion*
Directors: P. MACINI – V.R. SPICA
20 – 25 April 2015
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
150th Workshop: *Advances in oncogeriatrics*
Director: I. CARRECA
26 – 29 April 2015
- INTERNATIONAL SCHOOL OF CARDIAC SURGERY AND INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
Directors: U.F. TESLER – G. BENEDEK
6th and 67th Course: *Scientific and technological advances in cardiac and vascular surgery: A translational approach*
Directors: U.F. TESLER – G. BENEDEK
30 April – 6 May 2015
- INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION
Director: E. IAROCCI
6th Course: *The science of light*
Directors: U. DOSSELLI – F. TURONE
8 – 13 May 2015

- INTERNATIONAL MEETING EBLN - European BioDefence Laboratory Network
Chairman: F. LISTA
18 – 22 May 2015

- INTERNATIONAL SCHOOL ON FUSION REACTORS TECHNOLOGY
Director: S. MARTELLUCCI
15th Course: *Plasma heating and current drive for ITER operation and DEMO needs: Design technology and diagnostics*
Directors: A. PIZZUTO – A.A. TUCCILLO
24 – 31 May 2015

- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
81st Course: *Adult stem cells in aging, diseases and cancer*
Directors: K. LENHARD RUDOLPH – G.P. VELO
31 May – 3 June 2015

- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
48th Course: *Engineering crystallography: From molecule to crystal to functional form*
Directors: A. AAKERROY – G. COQUEREL – R. DOCHERTY – K.J. ROBERTS
5 – 14 June 2015

- INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
34th Workshop: *Adapted mind, adapted body: The evolution of human behaviour and its neuroendocrine regulation*
Director: D. MAESTRIPIERI
17 – 22 June 2015

- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
Director: A. ZICHICHI
53rd Course: *The future of our physics including new frontiers*
Directors: G. 't HOOFT – A. ZICHICHI
24 June – 3 July 2015

- INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
Director: B. DI BARTOLO
33rd Course: *Nano-optics: Principles enabling basic research and applications*
Directors: B. DI BARTOLO – A. VOITOVICH
4 – 19 July 2015

- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
56th Course: *Atoms and plasmas in super-intense laser fields*
Directors: D. BATANI – M. PASSONI
12 – 22 July 2015

- INTERNATIONAL SCHOOL OF DETECTOR TECHNOLOGY «TOM YPSILANTIS»
Director: C. WILLIAMS
3rd Course: *The future of fast timing*
Directors: K. DOROUD – C. WILLIAMS
23 – 27 July 2015

- INTERNATIONAL SCHOOL ON COMPLEXITY – Director: A. ZICHICHI
Co-Directors: G. BENEDEK – M. GELL-MANN – C. TSALLIS
15th Course: *New trends in statistical mechanical foundations of complexity - applications in high energy physics, plasma physics, long-range interactions, edge of chaos, and elsewhere*
Directors: G. BENEDEK – R. GALVAO – A. RAPISARDA – C. TSALLIS
26 July – 3 August 2015

- INTERNATIONAL CONFERENCE ON METROLOGY RESEARCH FOR THE DEVELOPMENT AND VALIDATION OF DESIGN RULES FOR ENGINEERING OF NANOSTRUCTURED AND NANOENABLED MATERIALS AND DEVICE
Chairman: A.M. ROSSI
27 July – 1 August 2015

- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION
Directors: I.S. ANDERSON – C. ANDREANI
1st Course: *Instruments and devices for neutron scattering experiments*
Directors: K. ANDERSEN – R.G.M. CACIUFFO
28 July – 4 August 2015

- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
48th Session – Co-Chairman: T.D. LEE
17 – 26 August 2015

- INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA»
Director: F. GIANNESSE
63rd Workshop: *Variational analysis and applications*
Directors: P. DANIELE – C. DE LELLIS – A. MAUGERI – R.T. ROCKAFELLAR – M. THÉRA
28 August – 5 September 2015

- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»
Director: F. GIANNESSE
64th Workshop: *Variational analysis and aerospace engineering III: Mathematical challenges for a new aviation*
Directors: A. FREDIANI – B. MOHAMMADI – O. PIRONNEAU
28 August – 5 September 2015

- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»
Director: F. GIANNESSE
65th Workshop: *Mathematical and computational epidemiology of Infectious diseases – the Interplay between models and public health policies*
Directors: P. CERRAI – A. D'ONOFRIO – J. EDMUNDS – P. MANFREDI
30 August – 5 September 2015

- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
5th Course: *Frontiers in water biophysics*
Directors: A. CESARO – D. FIORETTO – G. FRANZESE
7 – 13 September 2015

- INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION
Directors: A.M. BATTRO – K.W. FISCHER
10th Course: *The teaching brain*
Directors: E. PASQUINELLI – S. STRAUSS
7 – 13 September 2015

- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS
Directors: A. FAESSLER - J. WAMBACH
37th Course: *Probing hadron structure with lepton and hadron beams*
Directors: A. FAESSLER – J. WAMBACH
16 – 24 September 2015

- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
82nd Workshop: *Nutraceuticals*
Directors: P. MINUZ – G.P. VELO – F. VIOLI
26 – 30 September 2015

- INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
35th Course: *Heart and behaviour. Stress, behaviour and the heart*
Directors: M. ESLER – N. MONTANO – A. SGOIFO – V. VACCARINO
1 – 6 October 2015
- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS
Director: C. ZANNONI
21st Course: *Liquid crystal elastomer*
Directors: A. DESIMONE – P. PASINI – C. ZANNONI
2 – 7 October 2015
- INTERNATIONAL SCHOOL ON SCIENCE AND TECHNOLOGY WITH EXTREMELY LARGE TELESCOPES
Directors: G. BONO – I. HOOK – S. RAMSAY
7 – 21 October 2015
- ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE»
9th Workshop: *Health benefits of physical activity*
Director: F.P. SIELI
15 – 18 October 2015
- INTERNATIONAL MEETING ON SECURITY RIGHTS AND THE EUROPEAN INSOLVENCY REGULATION
Chairman: R. MANGANO
18 – 20 October 2015
- CONSULTA PERMANENTE DELLA SOCIETÀ ITALIANA DI CARDIOLOGIA
5th Course: *Progress in cardiovascular research*
Chairman: S. NOVO
19 – 21 October 2015
- INFN ELOISATRON PROJECT
Director: A. ZICHICHI
58th Workshop: *High power cyclotrons for neutrino physics*
Director: W.A. BARLETTA
19 – 25 October 2015
- INTERNATIONAL SCHOOL OF DERMATOLOGY
Directors: G. BURG – B. GIANNOTTI
9th Course: *SIMID from the dermatological viewpoint and beyond*
Directors: N. PIMPINELLI – L. ZICHICHI
22 – 25 October 2015
- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
6th Course: *New horizons in non-equilibrium quantum thermodynamics: Theory and experiment*
Directors: M. CAMPISI – R. FAZIO – P. HÄNGGI
26 October – 1 November 2015
- INTERNATIONAL SCHOOL OF IUS COMMUNE
Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON
35th Course: *The emergence of ius criminale from ius civile and ius canonicum: Pathways and perspectives in medieval and early modern Europe*
Director: G. CHIODI
4 – 8 November 2015
- INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
36th Course: *The impact of climate changes on animal populations*
Director: M. APOLLONIO
9 – 14 November 2015

- INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
37th Course: *Social relationships and cognitive competences in domestic dogs*
Directors: A. HOROWITZ – E. PRATO PREVIDE – P. VALSECCHI
16 – 22 November 2015
- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
151st Course: *Advances in diabetes*
Directors: G. ALLOTTA – A. CERIELLO – O. SCHNELL
23 – 28 November 2015
- INTERNATIONAL SCHOOL OF BRAIN CELLS AND CIRCUITS «CAMILLO GOLGI»
Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT
1st Course: *Modeling the brain: From neurons to integrated systems*
Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT – M. MIGLIORE
29 November – 3 December 2015
- 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. BIASIO – C. SIGNORELLI
5 – 9 December 2015
- INTERNATIONAL SCHOOL OF THORACIC MEDICINE
9th Course: *Interstitial lung diseases*
Director: C. VANCHERI
9 – 13 December 2015

**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>**