

«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 2011 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

- SCHOOL ON PARTICLE ACCELERATORS ON SYNCHROTRON RADIATION AND FREE ELECTRON LASERS
Directors: R. BAILEY – W.A. BARLETTA
6 – 15 April 2011

- INTERNATIONAL WORKSHOP ON DATA ANALYSIS IN ASTRONOMY «LIVIO SCARSI AND VITO DI GESÙ»
7th Course: *Science: Image in action*
Director: B. ZAVIDOVIQUE
15 – 22 April 2011

- INTERNATIONAL SCHOOL OF UROLOGY AND NEPHROLOGY
Director: M. PAVONE-MACALUSO
13th Course: *Advanced course in Urological Oncology “focus on renal cancer”*
Directors: G. CONTI – G. SICA
27 April – 1 May 2011

- INTERNATIONAL SCHOOL OF CARDIOLOGY
Director: F. FEDELE
15th Course: *Latest finds in hypertension schemes*
Director: F. FEDELE
2 – 5 May 2011

- INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
41st Course: *Channels and transporters*
Directors: L.J. DE FELICE – B. KANNER
10 – 18 May 2011

- INTERNATIONAL SCHOOL ON HADRON THERAPY «EDWIN McMILLAN»
2nd Workshop: *Hadron beam therapy of cancer*
Directors: A.M. SESSLER – V.G. VACCARO
20 – 27 May 2011

- INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION
Director: B. MARAVIGLIA
9th Course: *Brain function investigation by magnetic resonance, electrophysiology, and molecular imaging*
Directors: F. GIOVE – B. MARAVIGLIA
25 May – 1 June 2011

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- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
43rd Course: *Electron crystallography: New methods to explore structure and properties of the nano world*
Directors: A. AVILOV – U. KOLB – L. MESHI
2 – 12 June 2011
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- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
44th Course: *The power of powder diffraction*
Directors: W.I.F. DAVID – K. SHANKLAND
2 – 12 June 2011
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- INTERNATIONAL SCHOOL OF CARDIAC SURGERY
Director: U.F. TESLER
4th Course: *Reconstructive cardiovascular surgery: An interactive approach*
Directors: U.F. TESLER – M.I. TURINA
13 – 18 June 2011
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- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
143rd Course: *Recent advances in perinatal medicine*
Directors: R. DI IORIO – D. GAZZOLO – E. MARINORI
16 – 19 June 2011
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- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
76th Workshop: *Innovation in health care technology: Drugs, surgery, devices and diagnostics*
Directors: J.K. ARONSON – G. RECCHIA – P. RIZZINI – G.P. VELO
15 – 18 June 2011
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- INTERNATIONAL SCHOOL OF PHARMACOLOGY
Director: G.P. VELO
77th Workshop: *Eicosanoids in cardiovascular disease*
Directors: P. MINUZ – J. RITTER – D. SACERDOTI – J. G.P. VELO
19 – 23 June 2011
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- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
Director: A. ZICHICHI
49th Course: *Searching for the unexpected at LHC and status of our knowledge*
Directors: G. 't HOOFT – A. ZICHICHI
24 June – 3 July 2011
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- INFN ELOISATRON PROJECT
Director: A. ZICHICHI
53rd Course
24 June – 3 July 2011
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- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS
Director: C. ZANNONI
18th Course: *Liquid crystal nanostructures and self-assembling: From organic electronics to metamaterials*
Directors: A. D'ALESSANDRO – P. PASINI – C. ZANNONI
3 – 10 July 2011
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- INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
Director: B. DI BARTOLO
28th Course: *Nanophotonics*
Director: B. DI BARTOLO
3 – 18 July 2011
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- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS
Directors: A.N. CHESTER – S. MARTELLUCCI
50th Course: *Atoms and plasmas in super-intense laser fields*
Directors: D. BATANI – C. JOACHAIN
14 – 24 July 2011
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- INTERNATIONAL SCHOOL ON FUSION REACTORS TECHNOLOGY
Directors: D. PALUMBO – S. MARTELLUCCI
13th Course: *Plasma wall interaction in fusion devices: Physics and technology*
Directors: A. PIZZUTO – G. MADDALUNO
17 – 24 July 2011
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- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
Director: G. BENEDEK
52nd Course: *Quantum phenomena in graphene, other low-dimensional materials, and optical lattices*
Directors: V. FALKO – M. INGUSCIO – V. PELLEGRINI – M. POLINI
26 July – 3 August 2011
-
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
Director: G. BENEDEK
53rd Workshop: *Quantum phenomena in graphene, other low-dimensional materials, and optical lattices*
Directors: V. FALKO – M. INGUSCIO – V. PELLEGRINI – M. POLINI
3 – 7 August 2011
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- INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION
Directors: A.M. BATTRO – K.W. FISCHER
6th Course: *Education in the digital era*
Directors: A.M. BATTRO – K.W. FISCHER
3 – 7 August 2011
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- ERICE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
44th Session – Co-Chairman: T.D. LEE
19 – 24 August 2011
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- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
144th Course: *Geriatric Oncology and Hematology 2011: update and perspectives*
Director: I. CARRECA
26 August – 3 September 2011
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- INTERNATIONAL SCHOOL OF ASTROPHYSICS “F. LUCCHIN”
Director: R. BUONANNO
Course on *Transition from low-mass stars to giant planets and galactic bulges*
Directors: G. BONO – M. ZOCCALI
4 – 11 September 2011
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● INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

36th Workshop: *Volcano observatory best practices workshop: Eruption forecasting*

Directors: J. EICHELBERGER – W. MARZOCCHI – S. NAKADA – P. PAPALE

11 – 15 September 2011

● INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS

Directors: A. FAESSLER – J. WAMBACH

33rd Course: *From quarks and gluons to hadrons and nuclei*

Directors: A. FAESSLER – J. WAMBACH

16 – 24 September 2011

● INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

Director: F. GIANNESI

56th Workshop: *Graph Theory, Algorithms and Applications*

Directors: R. CERULLI – A. GOLDBERG – G.F. ITALIANO – K. MEHLHORN – R.E. TARJAN

25 September – 3 October 2011

● INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

Director: F. GIANNESI

57th Workshop: *Mathematical oncology: New challenges for systems biomedicine*

Directors: Z. AGUR – P. CERRAI – A. D'ONOFRIO – A. GANDOLFI

25 September – 1 October 2011

● INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

37th Workshop: *The Earth expansion evidence – a challenge for Geology, Geophysics and Astronomy*

Directors: S. CWOJDZINSKJ – G. SCALERA

4 – 9 October 2011

● INTERNATIONAL SCHOOL OF IUS COMMUNE

Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON

31st Course: *The formation and crisis of the great systems of law: The legacy of the Romano-canonical ius commune*

Director: A. ROMANO

6 – 12 October 2011

● INTERNATIONAL WORKSHOP ON CRITICAL STABILITY OF QUANTUM FEW-BODY SYSTEMS

Directors: A. MARTIN – J.-M. RICHARD

2nd Workshop: *Dynamics and structure of critically stable quantum few-body systems*

Directors: A. JENSEN – A. KIEVSKY – J.-M. RICHARD

9 – 15 October 2011

● INTERNATIONAL SCHOOL OF MEDICAL SCIENCES

145th Course: *Arrhythmia*

Directors: C. PUNTRELLO – S. IACOPINO

13 – 15 October 2011

● INTERNATIONAL SCHOOL OF ETHOLOGY

Directors: D. MAINARDI – S. PARMIGIANI

26th Workshop: *The obese species: Clinical and preclinical understanding of eating and energy balance disorders*

Directors: A. BARTOLOMUCCI – S. PARMIGIANI – J. RODGERS – A. VIDAL-PUIG

21 – 26 October 2011

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- ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE»
5th Workshop: *Sport-therapy in chronic diseases*
Director: F.P. SIELI
27 – 31 October 2011

 - INTERNATIONAL SCHOOL OF ETHOLOGY
Directors: D. MAINARDI – S. PARMIGIANI
27th Workshop: *Conceptual issues in stress research*
Directors: J. KOOLHAAS – E. FUCHS – A. SGOIFO
1 – 7 November 2011

 - INTERNATIONAL SCHOOL ON COMPLEXITY – Director: A. ZICHICHI
Co-Directors: G. BENEDEK – M. GELL-MANN – L. PIETRONERO – C. TSALLIS
14th Course: *Nonlinear optics and complexity in photonic crystal fibers and nanostructures*
Directors: F. BIANCALANA – C. CONTI – P.St.J. RUSSEL
8 – 13 November 2011

 - INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
Director: G. BENEDEK
54th Workshop: *Nanophotonics for energy efficiency*
Directors: G. BADENES – P. LAGOUDAKIS – T. SVENSSON – D.S. WIERSMA
8 – 13 November 2011

 - CONSULTA PERMANENTE DELLA SOCIETÀ ITALIANA DI CARDIOLOGIA
2nd Course – Chairman: S. NOVO
14 – 16 November 2011

 - INTERNATIONAL SCHOOL OF DERMATOLOGY
Directors: G. BURG – B. GIANNOTTI
5th Course: *Old and new STDs: A multidisciplinary approach*
Directors: L. ZICHICHI – G. ZUCCATI
17 – 20 November 2011

 - INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D’ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO
40th Course
Directors: M.T. MONTAGNA – A.L. CARDUCCI
21 – 25 November 2011

 - INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
146th Course: *Neuroepidemiology: Methods and clinical applications*
Directors: W.A. ROCCA – G. SAVETTIERI
26 November – 2 December 2011

 - INFN ELOISATRON PROJECT
Director: A. ZICHICHI
54th Workshop – Director: W.A. BARLETTA
30 November – 5 December 2011
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**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>**