

# «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 2007 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 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

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

Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO

34th Course: *From Model to Process in Communication for Public Health: Goals, Methods, Strategies*

Directors: D. D'ALESSANDRO – F. AUXILIA

3 – 7 March 2007

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- CONVEGNO SULLA SCUOLA MULTIMEDIALE

Chairman: T. SIRCHIA

9 – 10 March 2007

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- MEETING INTERNAZIONALE SULLA CRIMINALITÀ FORENSE

Chairmen: G. MARCECA – G. RANDO

10 – 12 April 2007

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- INTERNATIONAL WORKSHOP ON DATA ANALYSIS IN ASTRONOMY «LIVIO SCARSI»

Director: V. DI GESÙ

6th Course: *Modelling and Simulation in Science*

Director: V. DI GESÙ

15 – 22 April 2007

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- NETWORK OF EXCELLENCE: SOFTCOMP ANNUAL MEETING

Chairmen: F. CARSUGHI – D. RICHTER

1 – 6 May 2007

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- INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION

Director: B. MARAVIGLIA

5th Course: *Brain Function Investigation by Magnetic Resonance, Electrophysiology and Pharmaceutical Probes, in Combination*

Director: B. MARAVIGLIA

6 – 13 May 2007

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- INTERNATIONAL SCHOOL OF CARDIAC SURGERY

Director: U.F. TESLER

2nd Course: *Left and Right Ventricular Failure: Concepts and Management*

Directors: P. SLEIGHT – U.F. TESLER

17 – 22 May 2007

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● INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES

Chairman: A. ZICHICHI – Co-Chairman: T.D. LEE

37th Session: *Fifth Meeting of the Permanent Monitoring Panel on Terrorism*

Co-Chairman: A. KAMAL

18 – 21 May 2007

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● INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION

Directors: A.M. BATTRO – K.W. FISCHER

2nd Course: *Chronoeducation, Basic and Applied Topics on Biological Rhythms and Learning*

Directors: D. CARDINALI – D. GOLOMBEK

22 – 25 May 2007

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● INTERNATIONAL SCHOOL OF PHARMACOLOGY

Directors: P. BENIGNO – L. RAUSA – G.P. VELO

72th Workshop: *Drug Innovation*

Director: G.P. VELO

24 – 27 May 2007

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● INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

28th Course: *Statistical Seismology: Physical and Stochastic Modelling of Earthquake Occurrence and Forecasting*

Directors: M. COCCO – R. CONSOLE – S. WIEMAR

31 May – 6 June 2006

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● INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY

Director: T.L. BLUNDELL

39th Course: *Engineering of Crystalline Materials Properties: State of the Art in Modeling, Design, Applications*

Directors: L. D. BRAGA – J. NOVOA

7 – 17 June 2007

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● INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY

Course on: *X Ray Micro and Nano-Probes: Instruments Methodologies and Applications*

Directors: I. BUKREEVA – S. LAGOMARSINO

11 – 17 June 2007

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● INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY

Director: B. DI BARTOLO

24th Course: *Frontier Developments in Optics and Spectroscopy*

Director: B. DI BARTOLO

17 June – 2 July 2007

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● INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE

Directors: O. JARDETZKY – J.D. PUGLISI

8th Course: *Biophysics and the Challenges of Emerging Threats*

Directors: A. ARSENIIEV – J.D. PUGLISI

19 – 30 June 2007

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● INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS

Directors: A.N. CHESTER – S. MARTELLUCCI

44th Course: *Advances in Nanophotonics II*

Directors: C. SIBILIA – D.S. WIERSMA

22 June – 2 July 2007

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- INTERNATIONAL SCHOOL ON COMPLEXITY – Director: A. ZICHICHI  
Co-Directors: G. BENEDEK – M. GELL-MANN – L. PIETRONERO – C. TSALLIS  
6th Course: *Complex Optics in Mesoscopic Materials C.O.M.Ma.07 - Satellite Statphys23*  
Directors: A. D'ANDREA – L. PIETRONERO – A. POLITI – D.S. WIERSMA  
3 – 8 July 2007
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- INTERNATIONAL SCHOOL ON COMPLEXITY – Director: A. ZICHICHI  
Co-Directors: G. BENEDEK – M. GELL-MANN – L. PIETRONERO – C. TSALLIS  
7th Course: *Statistical Physics of Social Dynamics: Opinions, Semiotic Dynamics, Language*  
Directors: V. LORETO – L. PIETRONERO – L. STEELS  
13 – 20 July 2007
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- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
40th Workshop: *Vibrations at Surfaces-12*  
Directors: G. BENEDEK – L. VATTUONE  
20 – 26 July 2007
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- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
41st Workshop: *Structure and Dynamics of Free and Supported Nanoparticles Using short wavelength radiation*  
Directors: O. BJÖRNEHOLM – P. MILANI – E. RUHEL  
21 – 26 July 2007
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- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
42nd Workshop: *Low Dimensional Dynamical Phenomena & Simulations*  
Directors: M. BERNASCONI – C. MOLTENI  
26 July – 1 August 2007
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- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS  
Director: C. ZANNONI  
14th Course: *Advances in Experimental and Theoretical Techniques for Anisotropic Fluids*  
Directors: P. PASINI – C. ZANNONI  
26 July – 1 August 2007
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- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»  
Director: F. GIANNESI  
46th Course: *New Problems and Innovative Methods in Nonlinear Optimization*  
Director: G. DI PILLO  
31 July – 9 August 2007
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- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES  
Chairman: A. ZICHICHI  
38th Session – Co-Chairman: T.D. LEE  
19 – 24 August 2007
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- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS  
Director: A. ZICHICHI  
45th Course: *Searching for the 'Totally Unexpected' in the LHC Era*  
Directors: G. 't HOOFT – A. ZICHICHI  
29 August – 7 September 2007
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● INFN ELOISATRON PROJECT

Director: A. ZICHICHI

49th Course: *An upgraded LHC Scenario - II*

Director: L. CIFARELLI

29 August – 7 September 2007

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● INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

Director: F. GIANNESI

47th Workshop: *Variational Analysis and Aerospace Engineering*

Directors: G. BUTTAZZO – A. FREDIANI

8 – 16 September 2007

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● INTERNATIONAL SCHOOL OF FUSION REACTOR TECHNOLOGY

Directors: D. PALUMBO – S. MARTELLUCCI

11th Course: *Energy Conversion Systems in Tokamak Reactors*

Director: A. PIZZUTO

9 – 15 September 2007

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● INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS

Directors: A. FAESSLER – J. WAMBACH

29th Course: *Quarks in Hadrons and Nuclei*

Directors: A. FAESSLER – J. WAMBACH

16 – 24 September 2007

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● INTERNATIONAL SCHOOL OF GEOPHYSICS

Director: E. BOSCHI

29th Course: *Rock Physics and Geomechanics. Natural Hazards: Thermo-hydro-mechanical Processes in rocks*

Directors: Y. BERNABÉ – S. VINCIGUERRA

25 – 30 September 2007

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● INTERNATIONAL SCHOOL OF ETHOLOGY

Director: D. MAINARDI

24th Course: *The Inevitable Link Between Heart and Behavior: New Insights from Biomedical Research and Implications for Clinical Practice*

Directors: A. SGOIFO – N. MONTANO – C. SHIVELY – J. THAYER – A. STEPTOE

27 September – 2 October 2007

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● INTERNATIONAL ACCELERATOR SCHOOL FOR LINEAR COLLIDERS

Chairmen: B. BARISH – W. CHOU

1 – 10 October 2007

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● INTERNATIONAL SCHOOL OF IUS COMMUNE

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

27th Course: *The Diversity of Laws and the Norms of the Ius Commune: The Interplay between Public and Private Realms in Medieval and Early Modern Europe*

Director: A. PADOVANI

4 – 10 October 2007

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● ADVANCED WORKSHOP OF SPORTS MEDICINE «VINCENZO BAIAMONTE» ON: LUNG, SPORT AND HEALTH

Director: F.P. SIELI

12 – 14 October 2007

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- INTERNATIONAL CONFERENCE ON GETTERING AND DEFECT ENGINEERING IN SEMICONDUCTOR TECHNOLOGY  
Chairman: A. CAVALLINI  
14 – 19 October 2007

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  - INTERNATIONAL SCHOOL OF GERONTOLOGY AND GERIATRICS «GIUSEPPE BARBAGALLO-SANGIORGI»  
11th Course: *Seminars on Geriatrics*  
Directors: L. BALDUCCI – M. BARBAGALLO – M. BELVEDERE – R. BERNABEI – L. FERRUCCI  
22 – 30 October 2007

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  - INTERNATIONAL SCHOOL OF GEOPHYSICS  
Director: E. BOSCHI  
30th Course: *CO<sub>2</sub> Capture & Storage: Towards a UK-Italy Common Strategy within a Global Framework*  
Directors: S. PERSOGLIA – E. BOSCHI – M. CAPRA – G. GIRARDI – S. LOMBARDI – F. QUATTROCCHI – M. WEBB  
31 October – 7 November 2007

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  - INTERNATIONAL SCHOOL ON COMPLEXITY – Director: A. ZICHICHI  
Co-Directors: G. BENEDEK – M. GELL-MANN – L. PIETRONERO – C. TSALLIS  
8th Course: *Noise Information And Complexity At The Quantum Scale*  
Directors: S. MANCINI – F. MARCHESONI  
4 – 10 November 2007

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  - INTERNATIONAL SCHOOL OF MEDICAL SCIENCES  
135th Course: *Advanced in Neurophysiatry*  
Director: F. CANZIANI  
11 – 13 November 2007

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  - INTERACTION COLLABORATION MEETING  
11 – 14 November 2007

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  - INTERNATIONAL SCHOOL OF DERMATOLOGY  
Directors: G. BURG – B. GIANNOTTI  
1st Course: *Cutaneous Lymphomas: Toward the Standard and Beyond*  
Directors: N. PIMPINELLI – L. ZICHICHI – P.L. ZINZANI  
15 – 18 November 2007

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  - ‘EXTREME ENERGY EVENTS’ (EEE) MEETING  
Chairman: A. ZICHICHI  
23 – 26 November 2007

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  - INTERNATIONAL SCHOOL ON NEURAL NETS «EDUARDO R. CAIANIELLO»  
Directors: M.I. JORDAN – M. MARINARO  
6th Course: *Dynamic Brain*  
Directors: M. MARINARO – S. SCARPETTA – Y. YAMAGUCHI  
6 – 12 December 2007
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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>**