

«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 2005 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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- SEMINARIO ROTARY R.Y.L.A. SULLA INTEGRAZIONE RELIGIOSA NELLA LEADERSHIP
Chairman: F.P. DI BENEDETTO
23 February – 2 March 2005

 - INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
125th Course: *Diabetology*
Directors: M. DI MAURO – A. GALLUZZO
3 – 5 March 2005

 - SIMPOSIO SU SCIENZA E TECNOLOGIA, STRUMENTI ESSENZIALI DI UNO SVILUPPO SOSTENIBILE
Chairman: S. CARTA
11 – 12 March 2005

 - SIMPOSIO INTERNAZIONALE SUGLI ASPETTI E FORME DEL MITO: VISIONI DEL SACRO
Chairman: G. ROMAGNOLI
3 – 5 April 2005

 - INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «G. D'ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO
32nd Course: *Legionellosis: Emerging Aspects*
Director: P. BORELLA
6 – 10 April 2005

 - INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA» – Director: F. GIANNESSI
42nd Workshop: *Variational Methods in Nonlinear Analysis*
Directors: A. AMBROSETTI – V. BENCI – G. CERAMI – D. FORTUNATO
14 – 22 April 2005

 - WORLD FEDERATION OF SCIENTISTS PERMANENT MONITORING PANEL ON TERRORISM
Chairman: A. ZICHICHI
33rd Session – Co-Chairman: A. KAMAL
5 – 9 May 2005

 - INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY – Director: T.L. BLUNDELL
37th Course: *Evolving Methods for Macromolecular Crystallography: The Structural Path to the Understanding of the Mechanism of Action of CBRN Agents*
Directors: R.J. READ – J.L. SUSSMAN
12 – 22 May 2005

 - INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION – Director: B. MARAVIGLIA
3rd Course: *Brain Function Research by Magnetic Resonance, Electrophysiology, and Molecular Probes*
Director: B. MARAVIGLIA
23 – 29 May 2005
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- INTERNATIONAL SCHOOL OF BIOPHYSICS «A. BORSELLINO»
35th Course: *Channels and Transporters*
Directors: L. DE FELICE – B. KANNER – V. TORRE
30 May – 6 June 2005

 - INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY – Director: B. DI BARTOLO
22nd Course: *New Developments in Optics and Related Fields. Modern Techniques, Materials and Applications*
Directors: B. DI BARTOLO – A.P. VOITOVICH
6 – 21 June 2005

 - INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE – Directors: O. JARDETZKY – J.D. PUGLISI
7th Course: *Structure and Biophysics - New Technologies for Current Challenges in Biology and Beyond*
Directors: A.S. ARSENEV – J.D. PUGLISI
22 June – 3 July 2005

 - INTERNATIONAL SCHOOL OF ETHOLOGY – Director: D. MAINARDI
22nd Course: *Cognitive Neuroscience of Number Processing*
Director: C. UMILTÀ
3 – 10 July 2005

 - INTERNATIONAL SEMINARS OF SCIENCE TEACHING AT SCHOOL – Director: G. CHARPAK
2nd Course: *European Summer School for Primary Science Education Trainers*
Directors: P. LÉNA – D. JASMIN
9 – 14 July 2005

 - INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
126th Course: *Recent Advances in Perinatal Medicine*
Director: E.V. COSMI – R. DI IORIO
10 – 16 July 2005

 - INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION – Directors: A.M. BATTRO – K.W. FISCHER
1st Course: *The Educated Brain*
Directors: A.M. BATTRO – K.W. FISCHER
15 – 20 July 2005

 - INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
34th Workshop: *Physics and Technology of TeraHerz Photonics*
Directors: F. BELTRAM – A. TREDICUCCI
20 – 26 July 2005

 - INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
35th Course: *Computer Simulations in Condensed Matter: from Materials to Chemical Biology*
Directors: K. BINDER – G. CICCOTTI – M.L. KLEIN
20 July – 1 August 2005

 - INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
36th Course: *A Hundred Years of Brownian Motion*
Directors: F. MARCHESONI – L. SCHIMANSKY-GEIER
26 July – 1 August 2005

 - INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELLUCCI
41st Course: *Molecular Physics and Plasmas in Hypersonics*
Directors: M. CAPITELLI – D. GIORDANO
1 – 7 August 2005

 - INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELLUCCI
42nd Course: *Photonics Metamaterials: From Micro to Nano Scale*
Directors: C. SIBILIA – D. WIERSMA
1 – 7 August 2005

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- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
34th Session – Co-Chairman: T.D. LEE
19 – 24 August 2005
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- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS – Director: A. ZICHICHI
43rd Course: *Towards New Milestones in our Quest to Go Beyond the Standard Model*
Directors: G. 't HOOFT – A. ZICHICHI
29 August – 7 September 2005
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- INFN ELOISATRON PROJECT – Director: A. ZICHICHI
45th Workshop: *Physics at the Extreme Energies*
Director: L. CIFARELLI
29 August – 7 September 2005
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- INTERNATIONAL SCHOOL OF GEOPHYSICS – Director: E. BOSCHI
25th Workshop: *Modeling of Mantle Convection and Lithospheric Dynamics*
Directors: T. BECKER – D. BERCOVICI – C. FARNETANI – C. GIUNCHI – G. SPADA
8 – 15 September 2005
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- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS – Director: A. FAESSLER
27th Course: *Neutrinos in Cosmology, in Astro, Particle and Nuclear Physics*
Director: A. FAESSLER
16 – 24 September 2005
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- INTERNATIONAL WORKSHOP ON MATHEMATICS AND DEMOCRACY
2nd Workshop on *Voting Systems and Collective Choice*
Director: B. SIMEONE
18 – 23 September 2005
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- INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA» – Director: F. GIANNESSE
43rd Course: *Stochastic Methods in Games Theory*
Directors: P. BATTIGALLI – O. GOSSNER – M. LI CALZI – M. SCARSINI
24 September – 2 October 2005
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- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS – Director: C. ZANNONI
12th Course: *Nanoscale Self-organizing Multifunctional Organic Materials*
Directors: F. BISCARINI - Y. GEERTS - P. PASINI - C. ZANNONI
24 September – 2 October 2005
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- INTERNATIONAL SCHOOL OF PHARMACOLOGY – Directors: P. BENIGNO – L. RAUSA – G.P. VELO
12th Workshop: *Pharmacovigilance: Present and Future*
Director: G.P. VELO
3 – 7 October 2005
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- INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»
Director: F. BERSANI
2nd Course: *Genotoxic Effects of Electromagnetic Field*
3 – 8 October 2005
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- INFN ELOISATRON PROJECT – Director: A. ZICHICHI
46th Workshop: *Physics and Applications of High Brightness Electron Beams*
Directors: L. PALUMBO – L. SERAFINI
9 – 14 October 2005
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- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
127th Course: *The Neurodegenerative Process: Biology, Models and Diseases*
Directors: S.H. APPEL – V. BONAVIDA – F. PICCOLI
14 – 20 October 2005
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- INTERNATIONAL SCHOOL OF IUS COMMUNE – Directors: M. BELLOMO – K. PENNINGTON
25th Course: *The Pursuit of Justice*
Directors: O. CONDORELLI – M. SCHMOECKEL
21 – 28 October 2005

 - INTERNATIONAL SCHOOL ON NEURAL NETS «E. CAIANIELLO» – Directors: M.I. JORDAN – M. MARINARO
7th Course: *The Analysis of Patterns*
Directors: R. CERULLI – N. CRISTIANINI – J. SHAWE-TAYLOR
28 October – 7 November 2005

 - INTERNATIONAL SCHOOL OF FUSION REACTOR TECHNOLOGY – Directors: D. PALUMBO – A. MARTELLUCCI
10th Course: *Global and Local Control of Tokamak Plasmas*
Directors: F. DE MARCO – A. PIZZUTO
8 – 14 November 2005

 - INTERNATIONAL SCHOOL OF CARDIAC SURGERY – Director: U.F. TESLER
1st Course: *Interactive Approach to Cardiac Surgery*
Directors: A.M. CALAFIORE – U.F. TESLER
14 – 19 November 2005

 - “2” US-EU DNA REPAIR MEETING: ENDOGENOUS STRESS, BASE EXCISION REPAIR AND RELATED PROCESSES
Director: E. DOGLIOTTI
28 November – 3 December 2005

 - INFN ELOISATRON PROJECT – Director: A. ZICHICHI
47th Workshop: *The 1st Physics ALICE Week: Week: Physics of Hadronic Interactions at LHC with Nucleons and Nuclei and Phase Transition Physics*
Directors: E. NAPPI – K. SAFARIK – J. SCHUKRAFT
4 – 10 December 2005

 - INTERNATIONAL SCHOOL OF COMPLEXITY
Director: A. ZICHICHI - Co-Directors: G. BENEDEK - M. GELL-MANN - L. PIETRONERO - C. TSALLIS
2nd Course: *Semiotic Dynamics, Language, and Complexity*
Directors: V. LORETO - L. STEELS
11 – 15 December 2005

 - INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
128th Course: *Aging, Life and Cancer: a Challenge Towards 21st Century*
Directors: I. CARRECA – G. CATALANO
9 – 12 December 2005
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More information about the activities of the Ettore Majorana Centre can be found on the WWW at the following address:
<http://www.ccsem.infn.it>