SUMMARY OF THE 2003 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.

- WORLD FEDERATION OF SCIENTISTS – INFORMATION SECURITY MEETING
  Chairman: H. WEGENER
  7 – 11 March 2003

- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELLUCCI
  36th Course: Advances in Quantum Information Processing: from Theory to Experiments
  15 – 22 March 2003

- HIGHLY SPECIALIZED SEMINARS
  Seminar on Symmetries in Nuclear Structure
  Director: A. VITTURI
  23 – 30 March 2003

- INTERNATIONAL SCHOOL ON MAGNETIC RESONANCE AND BRAIN FUNCTION – Director: B. MARAVIGLIA
  1st Course: New NMR Strategies for Brain Investigation
  Director: B. MARAVIGLIA
  6 – 10 April 2003

- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
  115th Course: Basic Aspects of Cardiac Surgery Today: an Update
  Director: U.F. TESLER
  7 – 13 April 2003

- INTERNATIONAL SCHOOL OF APPLIED GEOPHYSICS – Director: R. CASSINIS
  12nd Workshop: Application of Geophysical Methods to Hydrogeological Problems
  Directors: F. COSSENTINO – U. YARAMANCI
  11 – 18 April 2003

- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «G. D’ALESSANDRO»
  Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO
  31st Course: Management of Information Flows in Public Health – Director: S. BARBUTI
  23 – 26 April 2003

- INTERNATIONAL SCHOOL OF COSMOLOGY AND GRAVITATION – Directors: P.G. BERGMANN – V. DE SABBATA
  18th Course: The Gravitational Constant: Generalized Gravitational Theories and Experiments
  Directors: V. DE SABBATA – G.T. GILLIES – V.N. MELNIKOV
  30 April – 10 May 2003

- ERICE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
  28th Session: Water, Soil and Desertification, Floods, Extreme Weather Events, Climate Change
  10 – 15 May 2003

- ERICE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
  29th Session: The Cultural Planetary Emergency. Focus on Terrorism
  10 – 15 May 2003
INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
116th Course: Postgraduate Course on Recent Advances in Perinatal Medicine
Director: E.V. COSMI
15 – 20 May 2003

INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY – Director: B. DI BARTOLO
20th Course: Frontiers of Optical Spectroscopy. Investigating Extreme Physical Conditions with Advanced Optical Techniques
Directors: B. DI BARTOLO – A. VOITOVICH
16 May – 1 June 2003

INTERNATIONAL SCHOOL OF GEOPHYSICS – Director: E. BOSCHI
23rd Workshop: Seismic Risk in Urban Areas
Directors: D. ABRAMS – C. EVA
25 – 29 May 2003

INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY – Director: T.L. BLUNDELL
34th Course: High Pressure Crystallography
Directors: A. KATRUSIAK – P.F. McMillan
4 – 15 June 2003

INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA» – Director: F. GIANNESSI
38th Course: Variational Analysis and Applications
Directors: F. GIANNESSI – A. MAUGERI
20 June – 1 July 2003

INTERNATIONAL SCHOOL OF MATHEMATICS «G. STAMPACCHIA» – Director: F. GIANNESSI
39th Course: Design Challenges and Mathematical Methods in Aircraft and Spacecraft
Directors: A. FREDIANI – A. MIELE
1 – 10 July 2003

INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELUCCI
37th Course: Atoms, Solids and Plasmas in Super-Intense Laser Fields
Directors: D. BATANI – C.J. JOACHAIN
5 – 15 July 2003

INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELUCCI
38th Course: Spectroscopic Techniques for Materials, Environment and Cultural Heritage
Directors: N. OMENTETO – V. PALLESCHI
5 – 15 July 2003

INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE – Director: O. JARDETZKY
6th Course: Structure, Dynamics and Function of Biological Macromolecules and Assemblies
Directors: N. PISLEWSKI – J.D. PUGLISI
10 – 22 July 2003

ADVANCED SCHOOL OF HISTORY OF PHYSICS – Director: W.R. SHEA
2nd Workshop on Science and Religion: “The Book of Nature and the Book of Scripture”
Director: K. GIBERSON
16 – 20 July 2003

INTERNATIONAL SCHOOL OF LIQUID CRYSTALS – Director: C. ZANNONI
10th Workshop: Computational Methods for Polymers and Liquid Crystalline Polymers
Directors: P. PASINI – S. ZUMER
16 – 22 July 2003

INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
27th Workshop: Intrinsic Localized Modes and Discrete Breathers in Nonlinear Lattices
Directors: V. HIZHNAYAKOV – A.J. SIEVERS
21 – 27 July 2003
INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
28th Workshop: Localisation by Nonlinearity and Spatial Discreteness, and Energy Transfer in Crystals, Biomolecules and Josephson Arrays
Directors: S. FLACH – R. MacKAY – M. PEYRARD
21 – 27 July 2003

INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
29th Course: Gas-Phase Cluster Assembling of Nanostructured Materials
Directors: R. McCURRY – P. MILANI – S. PRATZINIS
26 July – 1 August 2003

ERICE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES – Chairman: A. ZICHICHI
30th Session
19 – 24 August 2003

INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS – Director: A. ZICHICHI
41st Course: From Quarks to Black Holes: Progress in Understanding the Logic of Nature
Directors: G. ’t HOOFT – A. ZICHICHI
29 August – 7 September 2003

INFN ELOISATRON PROJECT – Director: A. ZICHICHI
41st Workshop: Physics of Hadronic Interactions with Nucleons and Nuclei at Extreme Energies
Director: L. CIFARELLI
29 August – 7 September 2003

INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS – Director: A. FAESSLER
25th Course: Heavy Ion Reactions from Nuclear to Quark Matter
Director: A. FAESSLER
16 – 24 September 2003

WORKSHOP ON CARDIAC ENGINEERING: FROM GENES AND CELLS TO CARDIAC STRUCTURE AND FUNCTION
Directors: R. BEYAR – G. CONDorelli – S. SIDEMAN
20 – 24 September 2003

INTERNATIONAL SCHOOL OF PHARMACOLOGY – Directors: P. BENIGNO – G.P. VELO
68th Workshop: Drug Scientific Information
Director: G.P. VELO
25 – 29 September 2003

INFN ELOISATRON PROJECT – Director: A. ZICHICHI
42nd Workshop: Innovative Detectors for Supercolliders
 Directors: E. NAPPI – J. SEGUINOT
28 September – 4 October 2003

WORKSHOP ON "DISEGNO E METODI DELL’INGEGNERIA INDUSTRIALE"
Directors: F. CAPUTO – F. CAPPELLO
29 September – 1 October 2003

INTERNATIONAL SCHOOL OF IUS COMMUNE – Directors: M. BELLOMO – K. PENNINGTON
23rd Course: New Rules through Old. The Ius Commune during the XVI-XVIII Centuries
Director: U. PETRONIO
2 – 9 October 2003
INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS – Director: G. BENEDEK
30th Course: Symmetry and Heterogeneity
Directors: A.F. ANDREEV – A. BIANCONI
4 – 10 October 2003

GIORNATE INTERNAZIONALI DI STUDI SULL’AREA ELIMA «GIUSEPPE NENCI» – Director: C. AMPOLO
Quinte Giornate Internazionali di Studi sull’Area Elima e la Sicilia Occidentale nel Contesto Mediterraneo: Guerra e Pace in Sicilia e nel Mediterraneo Antico (VIII-III sec. a.C.): Arti, Prassi e Teoria della Pace e della Guerra
Director: C. AMPOLO
11 – 15 October 2003

INTERNATIONAL SCHOOL OF ETHOLOGY – Director: D. MAINARDI
20th Workshop: Individual Differences in Behavior and Physiology: Causes and Consequences
18 – 23 October 2003

INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS – Directors: A.N. CHESTER – S. MARTELLUCCI
39th Course: Microresonators as Building Blocks for VLSI Photonics
Directors: M. BERTOLOTTI – A. DRIESEN – F. MICHELOTTI
18 – 25 October 2003

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
117th Course: Signal Transduction and Communication in the Cancer Cells
24 – 31 October 2003

INFN ELOISATRON PROJECT – Director: A. ZICHICHI
43rd Workshop: Superconductors and Supermagnets
Director: W. BARLETTA
26 October – 1 November 2003

INTERNATIONAL SCHOOL ON NEURAL NETS «E. CAIANIELLO» – Directors: M.I. JORDAN – M. MARINARO
6th Course: Computational Neuroscience: Cortical Dynamics
Directors: P. ERDI – M. MARINARO
31 October – 7 November 2003

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
118th Workshop: Specific Topics on Geriatrics and Oncology
Directors: L. BALDUCCI – I. CARRECA
8 – 11 November 2003

INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «G. D’ALESSANDRO»
Directors: G.M. FARA – G. GIAMMANCO – M. SZKLO
32nd Course: Health Promotion in Childhood and Adolescence - Directors: R. BURGIO - M.T. TENCONI
11 – 15 November 2003

INTERNATIONAL SCHOOL OF ETHOLOGY – Director: D. MAINARDI
24 – 29 November 2003

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
119th Course: Dermatology - Director: L. ZICHICHI
29 – 30 November 2003