SUMMARY
OF THE 2019 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 Enrico Fermi Historical Museum of Physics and Study and Research Centre, 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 SCHOOL OF QUANTUM ELECTRONICS
  Directors: A.N. CHESTER – D.S. WIERSMA
  62nd Course: The Frontiers of Attosecond and Ultrafast X-ray Science
  Directors: L. DIMAURO – M. NISOLI
  10 – 16 March 2019

- INTERNATIONAL SCHOOL OF SCIENCE EDUCATION
  Director: P. LÉNA
  2nd Workshop: Climate education: Climate, ocean and land use
  Directors: L. LESCARMONTIER – D. WILGENBUS
  11 – 16 March 2019

- INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»
  Directors: F. BERSANI – M.R. SCARFI
  9th Course: Possible biomedical applications of EMFs to cancer: from Biology and in silico to clinical perspectives
  Directors: T. SAMARAS – G. SERSA
  24 – 30 March 2019

- INFN ELOISATRON PROJECT
  Director: A. ZICHICHI
  61st Workshop: Industrialization of Critical Technical Sub-systems of a 100 TeV Collider
  Directors: W.A. BARLETTA – B. STRAUSS
  1 – 5 April 2019

- INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION
  Director: E. IAROCCI
  10th Course: Big Projects for Science and Knowledge
  Directors: P. CAMPANA – C. DI GIORGIO
  6 – 11 April 2019

- ZERO ROBOTICS - ITALY
  Directors: E. MICELI – M.P. LUCENTINI
  11 April 2019

- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION
  Directors: C. ANDREANI – R.M.G. CACIUFO – R. MCGREEVY
  6th Course: 49èmes Journées des Actinides
  Directors: R.M.G. CACIUFO – E. COLINEAU
  14 – 18 April 2019

- INTERNATIONAL CONFERENCE ON MEDICIS PROMED H2020
  Directors: J.O. PRIOR – T. STORA
  29 April – 4 May 2019
INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
Director: S. PARMIGIANI
44th Course: Social Stress: Psychological and psychosomatic implications
Directors: S. DE BOER – A. SGOIFO – J. THAYER – V. VACCARINO
6 – 11 May 2019

INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
Director: S. PARMIGIANI
45th Course: Sex differences, dimorphisms, divergences: Impact on brain and behaviour in health and disease
Directors: M. McCARTHY – P. PALANZA – S. PARMIGIANI
20 – 25 May 2019

INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D’ALESSANDRO»
55th Course: ASPHER: Deans’ and Directors’ retreat
Directors: G. PRIVITERA – C. SIGNORELLI
26 – 29 May 2019

INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
53rd Course: Magnetic Crystallography
31 May – 9 June 2019

INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
Director: T.L. BLUNDELL
54th Course: Cryo 3D Electron Microscopy
Directors: D. HANEIN – S. LUDTKE – S. RAUNSER
31 May – 9 June 2019

ASSEMBLEA ORGANIZZATIVA FILCA-CISL
Chairman: P. D’ANCA
11 – 13 June 2019

FROM SAFETY OF NAVIGATION TO SAFEGUARDING THE SEA A PATH THAT JOINS THE FUTURE, SCIENCE, ART AND PROFESSIONALISM
Chairman: V. BELLOMO
14 – 15 June 2019

INTERNATIONAL SCHOOL OF CARDIOLOGY
Directors: A. BRANZI – F. FEDELE
21st Workshop: Advances in Cardiovascular Imaging and Therapy
16 – 19 June 2019

INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
Director Emeritus: A. ZICHICHI – Director: G. ’t HOOFT
57th Course: In Search for the Unexpected
Director: G. ’t HOOFT
21 – 30 June 2019

INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»
Directors: G. BUTTAZZO – F. GIANNELLI – M. THÉRA
71st Workshop: Advances in Nonsmooth Analysis and Optimization
Directors: A. BARBAGALLO – R.I. BOT – C. SAGASTIZABAL
24 June – 1 July 2019

INTERNATIONAL SCHOOL OF COMPLEXITY
16th Course: Noneextensive statistical mechanics, superstatistics and beyond: Theory and applications in astrophysical and other complex systems
2 – 8 July 2019

INTERNATIONAL SCHOOL OF NANOMEDICINE
Directors: M. FERRARI – N. MASERINI
4th Course: Precision nanomedicine
Directors: M. MOGHINI – F. RE
2 – 8 July 2019
INTERNATIONAL SCHOOL OF WATER AND WATER SYSTEM
Directors: R. CAR – F. MALLAMACE – L.G.M. PETTERSON
2nd Course: Polymers and soft materials: Glasses, gels and networks
Directors: F. GRECO – G. MENSITIERI
9 – 16 July 2019

INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
Director: B. DI BARTOLO
37th Course: Light-Matter Interactions Towards the Nanoscale
Directors: J. COLLINS – S. GAPONENKO
20 July – 4 August 2019

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÀNGGI – F. MARCHESONI
17th Course: Frontiers in Water Biophysics
Directors: A. CESÀRO — L. COMEZ – G. FRANZESE
21 – 26 July 2019

INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE
Director: J.D. PUGLISI
17th Course: Modeling the brain and its pathologies
Directors: E. D’ANGELO – C. GANDINI WHEELER-KINGSHOTT – V. JIRSA
27 August – 1 September 2019

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÀNGGI – F. MARCHESONI
18th Course: Transport phenomena in complex environments
Directors: E. FOULAADVAND – H. LOWEN – A. SCHADSCHNEIDER
2 – 6 September 2019

INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS
Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
41st Course: Star mergers, dark matter, neutrinos in nuclear, particle and astro physics and in cosmology
Directors: M. BUBALLA – A. FAESSLER – J. WAMBACH
16 – 24 September 2019
INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
Directors: P.F. FERRARI – G. RIZZOLATTI
10th Course: Brain and Behavioral Evolution in Primates
Directors: C. CROCKFORD – P.F. FERRARI – R. WITTIG
25 – 29 September 2019

INTERNATIONAL SCHOOL OF MOLECULAR ONCOLOGY
Director: F.M. BUONAGURO
2nd Course: Infectious Agents-related Malignancies
Directors: F.M. BUONAGURO – G. FRANCHINI – M.L. TOMASELLO
25 – 29 September 2019

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
19th Course: Quantum devices for non-classical light generation and manipulation
Directors: D. BAJONI – S.L. PORTALUPI – R. TROTTA
30 September – 5 October 2019

INTERNATIONAL SCHOOL ON MIND, BRAIN AND EDUCATION
Directors: A.M. BATTRO – K.W. FISCHER
14th Course: The science of learning and teaching
30 September – 5 October 2019

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
Directors: A. ZICHICHI – I. CARRECA
157th Course: Nutrition, Health and Aging: From Sustainability to Disease Prevention
Director: G. CARRUBA
5 – 7 October 2019

INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»
Director: P. MINUZ
89th Course: Improving the detection, analysis and reporting of harms in medicines
6 – 10 October 2019

INTERNATIONAL SCHOOL OF IUS COMMUNE
Directors: M. BELLOMO – O. CONDORELLI – K. PENNINGTON
39th Course: The city, the country, lordship and power: Jurisprudence and Law from the Middle Ages
Directors: O. CONDORELLI – A. PADOVANI
7 – 11 October 2019

INTERNATIONAL SCHOOL OF CARDIOLOGY
Directors: A. BRANZI – F. FEDELE
22nd Workshop
Directors: F. FEDELE
18 – 21 October 2019

INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
Directors: P. HÄNGGI – F. MARCHESONI
20th Course: New Trends in Nonequilibrium Stochastic Multistable Systems and Memristors
Directors: O.L. GORSHKOV – B. SPAGNOLO – D. VALENTI
18 – 21 October 2019

INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
Director: S. PARMIGIANI
46th Workshop: Ethology, psychology, psychiatry: An evolutionary approach
Directors: M. BRÜNE – P. PALANZA – S. PARMIGIANI – A. TROISI
22 – 27 October 2019

INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
Chairman: A. ZICHICHI – Co-Chairman: T.D. LEE
53rd Session: Catastrophic Risk
Chair: S. LEIVESLEY – Co-Chairs: A. NILSSON – R.N. SCHOCK
28 October – 1 November 2019
INFIN ELOISATRON PROJECT
Director: A. ZICHICHI
62nd Workshop: High Power Cyclotrons for frontier Particle Physics
Directors: W.A. BARLETTA – M. SHAEVITZ
28 October – 2 November 2019

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
Directors: A. ZICHICHI – I. CARRECA
158th Course: Advances in Nutrigenomics and Epigenetics
Director: D. GALIMBERTI
29 – 31 October 2019

INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D’ALESSANDRO»
56th Course: Environment’s impact assessment on health: from theory to practice
Directors: A. CARLUCCI – M. FERRANTE
3 – 7 November 2019

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
Directors: A. ZICHICHI – I. CARRECA
159th Course: Laboratory medicine
Directors: M. CIACCIO – F. SALVATORE
7 – 9 November 2019

INTERNATIONAL SYMPOSIUM ON CONTRAST MEDIA RESEARCH
Chairmen: S. AIME – C.C. QUATTROCCHI
10 – 15 November 2019

INTERNATIONAL MEETING ON THE GENETICS, PATHOGENESIS, PREVENTION, AND THERAPY OF TYPE 1 DIABETES
Directors: C. MATHIEU – L. OVERBERGH – A. PUGLIESE
17 – 22 November 2019

INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
45th Course: Neuroepidemiology: Methods and clinical applications
24 – 30 November 2019

INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
Directors: A. ZICHICHI – I. CARRECA
160th Course: Management of solid tumors in aged people: An update
Director: S. MONFARDINI
5 – 7 December 2019

INTERNATIONAL SCHOOL OF THORACIC MEDICINE
11st Course: Interstitial lung diseases
Director: C. VARCHERI
9 – 12 December 2019

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