The fee for attending the 2017 Course of the “International School of Cardiac Surgery” is Euro 600 per participant. The course “fee”, besides the scientific sessions, includes housing, meals, airport transfers and all social activities associated with the Centre during your stay in Erice.

PAYMENT OF FEE
Transfer amount 600 Euro/person
HOLDER: Fondazione Ettore Majorana e Centro di Cultura Scientifica
Via Guarnotta 26 - 91016 Erice, Italy
BANK: Unicredit Private Banking S.p.A.
BRANCH NAME: 07858 - TRAPANI
STREET: Via Garibaldi 9 - 91100 Trapani, Italy
IBAN IT 47 I 02008 16407 000600000655
BIC SWIFT: UNCRITM158X

Reason for payment:
Name of the participant,
INTERNATIONAL SCHOOL OF CARDIAC SURGERY
Imaging and the Heart
09-14/04/2017

Please be sure that your name appears on the receipt that you will be requested to present upon your arrival in Erice.

The fee can be paid, alternatively in Erice, upon registration:
1) in cash; ii) with travellers cheques; iii) with Eurocheques.

PLEASE NOTE
Participants must arrive in Erice on Sunday, 9 April, not later than 5 p.m.

More information about the “Ettore Majorana” Foundation and Centre for Scientific Culture can be found on the web site: ccsem.infn.it
ACCOMODATION AND FACILITIES
There are living quarters in all three renovated monasteries for people attending the Courses at the Centre. In addition to the rooms in the three Institutes, some participants may be housed in local hotels, depending upon the size of the group, and whether there are parallel activities taking place. Meals are provided at a variety of local restaurants.

ARRIVAL AND DEPARTURE
There are many flights from Rome and from Milan to Palermo. Also, there are a few flights to the Airport of Trapani Birgi which is closer to Erice.

On the official arrival day, transportation from Palermo airport to Erice will be provided by the Ettore Majorana Centre. Our bus will be available at Palermo airport on the afternoon of your arrival day until 5 p.m., to drive you to Erice. Participants arriving at Palermo airport should look for the Ettore Majorana meeting point inside the terminal at the arrival gate where the Ettore Majorana Centre driver will be waiting. Transportation will be provided also for participants arriving at Trapani Birgi Airport.

On the official day of departure, transfer to Palermo and to Trapani Birgi airports will be provided by the Centre.

Participants must communicate their arrival and departure times and flight numbers well in advance of their arrival in order to organise their transfer to the airports.

ACCOMPANYING PERSONS
It is necessary for those participants who would like to be accompanied by members of their families to contact the Organizers well in advance of their arrival. Accommodation is limited and priority will be given to the first-comers.

THE "ETTORE MAJORANA" FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
The “Ettore Majorana” Foundation and International Centre for Scientific Culture (EMFSC) is named after an outstanding Italian physicist born in 1906 who had been appointed full professor of Theoretical Physics at the University of Naples at the age of 30. He was much respected and admired by the scientific community including, among others, by the Nobel Prize winners Enrico Fermi, Emilo,Segrè, Niels Bohr, Werner Heisenberg etc. and whose disappearance during a boat trip from Palermo to Naples on 27 March 1938 is still shrouded in mystery.

THE CENTRE
The Centre is situated in the old pre-mediaeval city of Erice where three restored monasteries (San Rocco, San Domenico and San Francesco) offer an appropriate setting for high intellectual endeavors besides providing living quarters for Faculty Members and Participants to the Course. These ancient buildings are now named after great Scientists and strong supporters of the “Ettore Majorana” Centre. The San Francesco Monastery (former Viceroy's residence) is now the Eugene P. Wigner Institute with the "Enrico Fermi" Lecture Hall. The San Domenico Monastery is now the Patrick M.S. Blackett Institute With the “Paul A.M. Dirac” Lecture Hall. The San Rocco Monastery is now the Isidor I. Rabi Institute with the "Richard P. Feynman" Lecture Hall, the Directorate and the main Secretariat of the Centre.

Since the establishment of the Centre in 1962 by Professor Antonino Zichichi with the International School of Subnuclear Physics, the Centre has grown over the years and now embraces over 120 Schools, covering all fields of Science.

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ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
INTERNATIONAL SCHOOL OF CARDIAC SURGERY
IMAGING AND THE HEART - ERICE 9 - 14 APRIL 2017

Sponsored by: •Italian Ministry of Education, University and Scientific Research •Sicilian Regional Government •National Research Council •Fondazione Policlinico di Monza •Italian Society for Cardiac Surgery

TOPICS
• Pathological substrates of imaging alterations in cardiovascular diseases.
• 3D Echocardiography, Magnetic Resonance, Computed Tomography, Nuclear Cardiology: current advances and future developments.
• 3D Echo in the evaluation of mitral valve disease and timing of mitral valve repair surgery.
• Quantitative image processing and computational modelling for valvular assessment.
• Cognition guided heart surgery. Computer assisted valve analysis by optical tracking system: an update
• Degenerative mitral valve regurgitation: from geometrical echo concepts to successful surgical repair.
• Role of imaging investigation in the planning of surgical and interventional procedures to correct degenerative and functional mitral regurgitation.
• Role of imaging investigation in the evaluation of tricuspid regurgitation and in the planning of its surgical correction.
• Right ventricular function and its prognostic role in patients undergoing valve surgery: how to assess the right ventricle.
• The role of imaging in the assessment and treatment of advanced heart failure.
• Imaging techniques for the assessment of myocardial viability and for the planning of surgical ventricular restoration.
• The role of imaging in decision-making for the surgical treatment and the use of mechanical circulatory support devices for end-stage heart failure.
• Vulnerable plaque of the coronary arteries: the role of CT scan.
• Molecular MRI: can we distinguish plaque morphology in coronary artery disease?
• CT coronary arteriogram – does it replace conventional angiography?
• Imaging for surgical intervention on the aortic valve and root.
• Imaging for surgical intervention on the aortic arch and the descending thoracic aorta.
• Imaging in the hybrid operating room. How does it really help in TAVR, TCV and TEVAR? Use of fusion imaging.
• Preoperative imaging and its intraoperative application for the prevention of symptomatic spinal cord ischemia.
• Advances in Imaging for the assessment of congenital heart disease.
• Congenital coronary artery anomalies.
• Magnetic resonance evaluation of Guch patients.
• Imaging tools for the surgical planning of hypertrophic cardiomyopathy.

SPEAKERS
Ottavio Alferi - S. Raffaele University Hospital, Milano, IT
Paolo Angioli - Texas Heart Institute, Houston, USA
Carlo Antonia - Sacco University Hospital, Milano, IT
Luigi Badano - University Hospital, Padova, IT
Cristina Bassino - University Hospital, Padova, IT
Enrico Caiani - Policlinico di Milano, Milano, IT
Gheorghie Cerin - Policlinico di Monza Group, Novara, IT
Martin Czerny - University Hospital, Freiburg, DE
Raffaele De Simone - University Hospital, Heidelberg, DE
Roberto Di Bartolomeo - S. Orsola University Hospital, Bologna, IT
Marco Diena - Policlinico di Monza Group, Novara, IT
Francesco Faletta - Cardiocentro Ticino, Lugano, CH
Paolo Ferruzzi - Policlinico di Monza, Monza, IT
Gino Geruso - University Hospital, Padova, IT
Toufik Khouri - Policlinico di Monza, Monza, IT
Guido Lanzillo - Policlinico di Monza, Monza, IT
Massimo Lombardi - San Donato Hospital, Milano, IT
Paolo Marzullo - CNR “Monasterio” Foundation, Pisa, IT
Giuseppe Mancia - University of Milano-Bicocca, Milano, IT
Lorenzo Menicanti - San Donato Hospital, Milano, IT
Andrea Mortara - Policlinico di Monza, Monza, IT
Denise Muraru - University Hospital, Padova, IT
Francesco Musumeci - San Camillo Hospital, Rome, IT
Christoph Nienaber - Royal Brompton Hospital, London, UK
Mauro Pepi - Centro Cardiologico Monzino, Milano, IT
John Pepper - Royal Brompton Hospital, London, UK
Filippo Scalcone - Policlinico di Monza, Monza, IT
Andrew Taylor - Great Ormond Street Hospital, London, UK
Gaetano Thiene - University Hospital, Padova, IT
Richard Underwood - Imperial College, London, UK
Francis Wells - Papworth Hospital, Cambridge, UK

POURPOSE OF THE COURSE
This interactive Course is dedicated to all health care professionals involved in the diagnosis and the treatment of diseases of the heart and great vessels, especially to cardiologists, cardiac surgeons, radiologists. It is designed to convey the experience of an interdisciplinary Faculty in providing a comprehensive survey of the advances that have taken place in the various imaging techniques pertaining to these fields and in their contemporary and forthcoming adoptions in diverse clinical scenarios. These topics will be highlighted, appraised and discussed in depth, so that, at the completion of the Course, participants will have had the opportunity to gain a thorough knowledge of the state of the art of the most innovative scientific and technological advances in the field of imaging and in their most appropriate implementation in the different aspects of cardiovascular pathology.

APPLICATIONS
Persons wishing to attend the Course should send an application, preferably by electronic mail, to: Prof. Ugo Filippo Tesler, hugin@iol.it
Specifying:
) Date and place of birth together with present nationality
) Present position and place of work
) iii) an abstract, if they wish to give a contribution (oral or poster).

POETIC TOUCH
According to legend, Erice, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The great historian Thucydides (~500 B.C.) said that the Elymi - founders of Erice - were survivors of the destruction of Troy. Ancient historians agreed that Erice was the oldest city in Europe. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.). Erice is at present a mixture of ancient and medieval architecture.

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ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
INTERNATIONAL SCHOOL OF CARDIAC SURGERY
IMAGING AND THE HEART - ERICE 9 - 14 APRIL 2017

PROGRAMME

MONDAY 10TH APRIL

SESSION 1  CARDIAC IMAGING THE FUTURE IS NOW
8,15-8,45 Surgical-interventional pathology and endomyocardial biopsy. Giacomo Lenti
8,45-9,15 How advanced imaging display may help surgeons and interventional cardiologists - Francesco Falatera
9,15-9,45 Advances in 3D echocardiography. Luigi Badano
9,45-10,15 Advances in cardiac magnetic resonance imaging. Massimo Lombardi

10,15-10,45 COFFEE BREAK

10,45-11,15 Advances in computerized tomography in cardiology. Toufic Khouri
11,15-11,45 Imaging and imaging: nuclear cardiology revisited. Paolo Marzullo
11,45-12,15 Cardio imaging – the next decade. Richard Underwood
12,15-12,45 Results of screening magnetic resonance imaging in 5000 schoolchildren in Houston - Paolo Angelini
12,45-13,15 Imaging for the assessment of hypertension. Giuseppe Mancia

13,15-14,30 LUNCH

SESSION 2  DEGENERATIVE MITRAL VALVE DISEASE
14,30-15,00 The pathology of mitral valve prolapse. Cristina Basso
15,00-15,30 3D Echo in the evaluation of MV disease and timing of MV repair surgery - Mauro Papi
15,30-16,00 COFFEE BREAK
16,00-16,30 Quantitative image processing and computational modelling for valvular assessment - Enrico Colantoni
16,30-17,00 Cognition guided heart surgery. Computer assisted valve analysis by optical tracking system - Raffaele De Simone
17,00-17,30 Degenerative Mitral Valve Regurgitation: From Geometrical Echo Concepts to Successful Surgical Repair - Gheorghe C. Ciug.\n17,30-18,00 Surgical repair of degenerative mitral valve insufficiency Marco Di Natale
18,00-18,30 Discussion

18,30 ADJOURN

TUESDAY 11TH APRIL

SESSION 3  FUNCTIONAL MITRAL REGURGITATION
8,30-9,00 Functional mitral valve incompetence – is there a substrate? Cristina Basso
9,00-9,30 How to assess patients with functional mitral regurgitation Francesco Falatera
9,30-10,00 Imaging investigation of the mechanism of functional mitral regurgitation - Francis Wells

10,00-10,30 COFFEE BREAK

10,30-11,00 MRI imaging in ischaemic mitral regurgitation. John Pepper
11,00-11,30 Restrictive annulo-plasty, complex repair or valve replacement: how to select the right patient for the right procedure. Ottavio Alfieri
11,30-12,00 Interventional procedures to correct Functional Mitral Regurgitation - Ottavio Alfieri
12,00-12,30 Discussion

12,30-14,30 LUNCH

SESSION 4  TRICUSPID REGURGITATION
14,30-15,00 The pathology of tricuspid valve regurgitation. Gaetano Thieme
15,00-15,30 Remodelling of the tricuspid valve in functional tricuspid regurgitation: are all tricuspid regurgitant valves the same? Denis Muraru
15,30-16,00 How to assess the severity of tricuspid regurgitation? Luigi Badano
16,00-16,30 COFFEE BREAK
16,30-17,00 When and how to operate patients with tricuspid regurgitation. The role of right ventricular function and of pulmonary artery pressures - Guido Lanzillo

18,30 ADJOURN

WEDNESDAY 12TH APRIL

SESSION 5  THE RIGHT VENTRICLE
17,00-17,30 Diseases affecting the right ventricle. Cristina Basso
17,30-18,00 Right ventricular function beyond TAPSE. Denis Muraru
18,00-18,30 Prognostic role of right ventricular geometry and function in patients undergoing valve surgery How to assess the right ventricle. Mauro Papi

18,30 ADJOURN

SESSION 6  HEART FAILURE
8,30-9,00 Structural substrate of the failing heart. Gaetano Thieme
9,00-9,30 The role of imaging in the assessment and treatment of advanced heart failure - Andrea Mortara
9,30-10,00 Imaging techniques for the assessment of myocardial viability. Richard Underwood
10,00-10,30 COFFEE BREAK
10,30-11,00 Imaging tools for decision-making in surgical ventricular restoration - Lorenzo Manenti
11,00-11,30 Imaging for decision-making for surgical treatment of end-stage heart failure - Gino Gerosa
11,30-12,00 Use of mechanical circulatory support devices in end stage heart failure - Francesco Musumeci
12,00-12,30 Discussion

12,30-14,30 LUNCH

SESSION 7  CORONARY ARTERIES
14,30-15,00 The atherosclerotic plaque in coronary artery syndromes. Gaetano Thieme
15,00-15,30 Vulnerable plaque: the role of CT scan. Francesco Falatera
15,30-16,00 Molecular MRI: can we distinguish plaque morphology in coronary artery disease? Can we examine extent of disease in the arterial wall? - John Pepper
16,00-16,40 CT coronary angiogram – does it replace conventional angiography? The point of view of the cardiologist: Filippo Scalise
The point of view of the radiologist: Toufic Khouri
16,40-17,00 COFFEE BREAK

SESSION 8  AORTA
17,00-17,30 Diseases affecting the aortic valve wall complex. Cristina Basso
17,30-18,00 Imaging for surgical intervention on the aortic valve and root. Carlo Antonola
18,00-18,30 Computer aided design and rapid prototyping for a person alised external aortic root support - John Pepper

18,30 ADJOURN

THURSDAY 13TH APRIL

SESSION 9  CONGENITAL
10,00-10,30 COFFEE BREAK
10,30-11,00 Congenital heart disease silent until adulthood. Gaetano Thieme
11,00-11,30 Advances in Imaging for the assessment of congenital heart disease. Andrew Taylor
11,30-12,00 Intravascular ultrasound imaging in symptomatic carriers of coronary artery anomalies: the role of severity evaluation. Paolo Angelini
12,00-12,30 Magnetic resonance evaluation of Guch patients. Toufic Khouri
12,30-13,00 Imaging tools for the surgical planning of hypertrophic obstructive cardiomyopathy. Paolo Ferrazzi

13,00 ADJOURN

18,30 ADJOURN