DIRECTORS OF THE COURSE:

David Cahen - Weizmann Inst. Israel
David Ginley - NREL, Colorado, USA
John M. Poate - Colorado School of Mines, USA
Abdelilah Slaoui - ICUBE-CNRS, Strasbourg, France
Antonio Terrasi - University of Catania, Italy

SUPPORTED BY:

- Italian Ministry of Education, University and Scientific Research
- Sicilian Regional Government
- Materials Research Society
- European Materials Research Society

HOW TO APPLY

1. Fill the registration form available at the link **www.erice-energy-materials.ct.infn.it** and send it to **antonio.terrasi@ct.infn.it**
2. Pay the registration fee (900 €) by bank transfer:

Account holder:	Ettore Majorana Foundation and Centre for Scientific Culture (EMFCSC)
Bank:	Unicredit Private Banking S.p.A.
Branch Name:	07858 - Trapani
Bank Address:	Via Garibaldi 9 - 91100 TP (Italy)
IBAN:	IT 47 I 02008 16407 000600000655
SWIFT:	UNCRITMM
Reference:	International School of Solid State Physics, 62nd Course

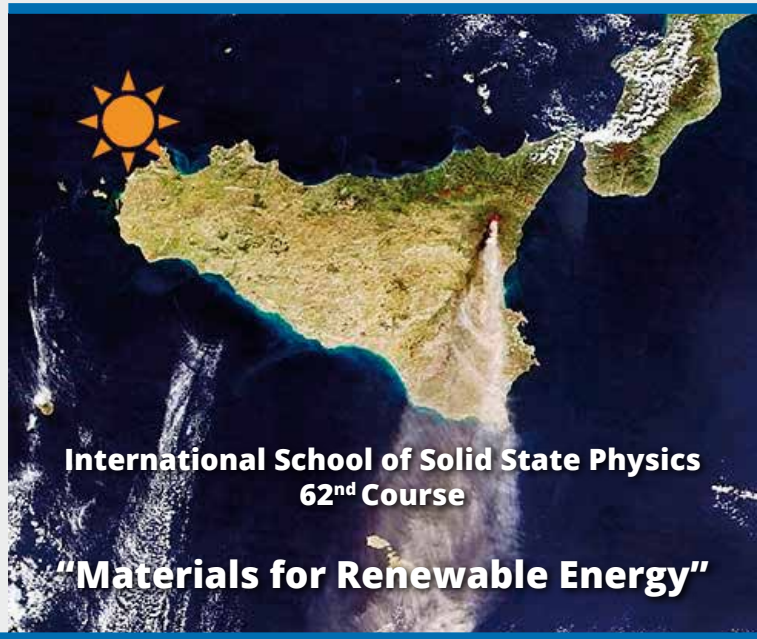
Deadline for registration
and fee payment
JUNE 15TH 2014

«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

Materials Research Society

European Materials Research Society



International School of Solid State Physics
62nd Course
"Materials for Renewable Energy"

Also sponsored by

Consiglio Nazionale delle Ricerche

Erice (Italy) / July 12 – 18 2014

SCOPE OF THE SCHOOL

The aim of the School is to present the state-of-the-art and the future perspectives for materials applied to the generation and storage of renewable and sustainable energy.

Lectures will be given by some of the most recognized academic and industrial experts, merging physics, chemistry and engineering knowledge in several fields. A general overview of the global energy landscape will be presented by discussing also conventional energy sources and next generation nuclear production. Topics of the school are: the global warming issue, conventional and sustainable technologies, solar energy conversion (PV and thermal), thermoelectric energy conversion, solar fuels, wind energy conversion, fuel cells, storage and vehicles. The School will be a great opportunity for students and postdoctoral fellows from around the world to meet with and learn from their peers, and established experts in a friendly atmosphere, reaping benefit in terms of enthusiasm, knowledge and new ideas and benefitting the future of mankind.

GENERAL INFORMATION

A max. number of 100 students will be allowed. **The registration fee is 900 €, plus 100 € per day for each accompanying person (if any).** The fee includes lodging in double room, all (3 daily) meals, social events and transfer airport-Erice-airport (Palermo or Trapani). Arrival July 11th departure July 19th before 12 a.m.

All details can be found in the **registration and travel form** downloadable at the link:

www.erice-energy-materials.ct.infn.it

Alternatively, the forms can be requested from the scientific secretary:

antonio.terrasi@ct.infn.it

Deadline for registration and fee payment

JUNE 15TH 2014

Phone numbers

Antonio Terrasi

office: +39 095 378543 - mobile: +39 339 2821464

Local secretariat of the EMCSC

+39 0923 869133

VENUE

information about the «Ettore Majorana» Foundation and Centre for Scientific Culture can be found on the WWW at the following address: **www.ccsem.infn.it**

LECTURES

- Energy: The Big Picture
- Critical Materials for the Energy
- Nuclear energy
- CO_2 sequestration and recycling
- Water-energy nexus
- Presentation of the EU Project "Water"
- PV Overview
- Optics for Solar Energy Conversion
- PV Industrial point of view
- Next Generations PV OPV/QD/Perovskites/ETA
- High-efficiency photovoltaics by nanophotonic design
- Concentrated Solar Power
- Thermoelectricity Piezoelectricity
- Geothermal Energy
- Solar fuels
- Photosynthesis
- BioFuels
- Fuel cells
- Hydrogen
- Wind
- Batteries and storage
- Smart Grid
- Patents and law regulations
- Lectures by student teams

SPEAKERS

Harry Atwater
California Institute of Technology, Pasadena, California US

Sally Benson
Stanford University, Stanford, California US

David Cahen
Weizmann Institute of Science Rehovot, IL

Claude Degueldre
Paul Scherrer Institute, Villigen CH

Jörg E. Drewes
Institute of Water and Environment, TUM, Garching, D

Javier Garcia Barberena Labiano
Nat. Renew. Ener. Centre, Pamplona S

David Ginley
National Renewable Energy Laboratory – Golden, Colorado US

Ahmed Hamza H. Ali
Egypt-Japan University of Science and Technology (E-JUST), Alexandria, ET

Ernst Huenges
GFZ Helmholtz-Zentrum Potsdam D

Dannie Jost
World Trade Institute, Bern, CH

Alex King
Ames Iowa Lab., US

Salvo Lombardo
IMM-CNR, Catania, I

Ryan O'Hayre
Colorado School of Mines, Golden, Colorado US

Joachim Peinke
University Oldenburg – Oldenburg D

Albert Polman
FOM Institute AMOLF , Amsterdam NL

Vittorio Privitera
IMM-CNR, Catania, I

Sabrina Sartori
University of Oslo, UNIK and Institute for Energy Technology, NO

Hans-Werner Schock
Consultant Photovoltaic Technologies, Stuttgart, D

Abdelilah Slaoui
ICUBE, CNRS , Strasbourg F

William Tumas
National Renewable Energy Laboratory – Golden, Colorado US

Anke Weidenkaff
University of Stuttgart, Stuttgart, D