

ERICE 2010
Materials for Renewable Energy



Materials for Renewable Energy 2010

from 28 May 2010 to 2 June 2010
Erice (Sicily-Italy)
Europe/Rome timezone

Ettore Majorana Foundation and Centre for Scientific Culture

67 students
10 USA
5 Israel
20 EU (out of Italy)
32 Italy



From left to right: John Poate, Stewart Polite Jr. (16 years old prodigy student), Antonio Terrasi, Abdelilah Slaoui, David Ginley and Emanuele Rimini

SCHOOL TIMETABLE

	8:00-8:30	10:30 11:00	11:00 13:00	13:00 15:00	15:00 17:00	17:00 17:30	17:30 19:00	Evening
Fri. May 28th	Introduction L. Orr <i>CO₂ Global Warming</i>	Coffee break	P. Waide <i>Energy Balance</i>	Lunch break	A. McEvoy <i>Energy: The Big Picture</i>	Coffee break	Seminar or posters or round table	Dinner + chattering and wine
Sat. May 29th	J. Poate <i>Conventional Technologies</i>	Coffee break	M. Hadjieva <i>Solar Thermal</i>	Lunch break	D. Carlson <i>Conventional Photovoltaics</i>	Coffee break	Seminar or posters or round table	Dinner + chattering and wine
Sun. May 30th	B. J. Stanbery <i>Photovoltaics Thin films</i>	Coffee break	A. Marti' <i>Photovoltaics 3rd generation</i>	Excursion (Lunch bag)				Dinner + chattering and wine
Mon. May 31st	H. Atwater <i>Si wires and plasmonics for Photovoltaics</i>	Coffee break	D. Ginley <i>Organic Photovoltaics</i>	Lunch break	S. Coffa <i>Photovoltaics Industry</i>	Coffee break	Seminar or posters or round table	Dinner + chattering and wine
Tue. June 1st	J. Poortmans <i>Photovoltaics Overview</i>	Coffee break	D. Cahen <i>Fuels via Solar Energy</i>	Lunch break	N. Pugliano <i>Green Chemistry</i>	Coffee break	Seminar or posters or round table	Dinner + chattering and wine
Wed. June 2nd	D. Ginley <i>Storage</i>	Coffee break	R. O'Hayre <i>Fuel Cells</i>	Lunch break	M. Schreckenberg <i>Vehicles</i>	Coffee break	Conclusions	Gala Dinner

ERICE 2012
Materials for Renewable Energy



Materials for Renewable Energy 2012

18-28 July 2012
Erice (Sicily-Italy)
Europe/Rome timezone

Ettore Majorana Foundation and Centre for Scientific Culture

65 students
29 Italy
10 USA
16 EU (out of Italy)
5 Africa
3 Turkey
1 Israel
1 Brasil

ERICE 2012 TIMETABLE

	8:30 10:30	10:30 11:00	11:00 13:00	13:00 15:00	15:00 17:00	17:00 17:30	17:30 19:00	Evening
Wed. July 18 th	8:00-8:30 WELCOME Lynn Orr <i>Energy Overview</i>	Coffee break	John Poate <i>Critical Materials Issue for the Energy World</i>	Lunch break	Jacques Amouroux <i>Carbon capture and recycling for energy storage</i>	Coffee break	Inputs for student team activity and material distribution	Dinner
Thu. July 19 th	Dannie Jost <i>Climate Change Governance and Renewable Energy</i>	Coffee break	Salvo Lombardo <i>Charge generation and transport in PV</i>	Lunch break	Dave Carlson <i>Conventional PV</i>	Coffee break	SEMINAR Harry Atwater <i>Solar Fuels – the Joint Center for Artificial Photosynthesis (JCAP)</i>	Dinner
Fri. July 20 th	Gianluca Timò <i>Concentrating PV</i>	Coffee break	Billy Stanbery <i>Thin film PV CIGS, CZTS</i>	Lunch break	Cosimo Gerardi <i>PV Industry</i>	Coffee break	Poster session	Dinner
Sat. July 21 st	Dave Ginley <i>Organic/Dye PV</i>	Coffee break	Harry Atwater <i>Photonic design principles for high efficiency photovoltaics</i>	Lunch break	Eli Yablonovitch <i>The Opto-Electronic physics which just broke the efficiency record in solar cells</i>	Coffee break	Poster session	Dinner
Sun. July 22 nd	FREE (Lunch bag)							Dinner
Mon. July 23 rd	Eli Yablonovitch <i>"Electrically Created Fuels"</i>	Coffee break	Werner F. Kuhs <i>Hydrates</i>	Lunch break	Joachim Peinke <i>Wind Energy</i>	Coffee break	SEMINAR Dave Ginley <i>Smart Grid</i>	Dinner

ERICE 2012 TIMETABLE

	8:30 10:30	10:30 11:00	11:00 13:00	13:00 15:00	15:00 17:00	17:00 17:30	17:30 19:00	Evening
Tue. July 24 th	Giovanni Ricco <i>Nuclear Energy I</i>	Coffee break	Giovanni Ricco <i>Nuclear Energy II</i>	Lunch break	Florence Jaudin <i>Geothermal</i>	Coffee break	SEMINAR Andrea Cuomo (President of 3Sun) <i>PV Industrial Perspectives</i>	Dinner
Wed. July 25 th	William Tumas <i>Green Chemistry</i>	Coffee break	Anke Weidenkaff <i>Thermoelectricity</i>	Excursion (Lunch bag)				Dinner
Thu. July 26 th	Laura Meda <i>Solar Water splitting</i>	Coffee break	David Cahen <i>Solar fuels and Artificial photosynthesis I</i>	Lunch break	David Cahen <i>Solar fuels and Artificial photosynthesis II</i>	Coffee break	Student team	Dinner
Fri. July 27 th	Daniele Consoli <i>Concentrated Solar Power</i>	Coffee break	Ryan O'Hayre <i>Fuel Cells Energy Conversion</i>	Lunch break	Ryan O'Hayre <i>Fuel Cells Energy Conversion</i>	Coffee break	Student team	Dinner
Sat. July 28 th	Sabrina Sartori <i>Hydrogen storage for vehicular applications</i>	Coffee break	Dannie Jost <i>Patenting Systems, Patentable Subject Matter, and Prior Art</i>	Lunch break	<i>Student team reports</i>	Coffee break	Conclusions	Social Dinner



International School "Materials for Renewable Energy" 2014 (12-18 July 2014)

12-19 July 2014
Europe/Rome timezone

Ettore Majorana Foundation and Centre for Scientific Culture

76 students
 23 Italy
 9 USA
 24 EU (out of Italy)
 10 Africa
 3 Turkey
 5 Israel
 1 Singapore
 1 Thailand

ERICE 2014 PROGRAM

	8:45 10:15	10:15 11:15	11:15 11:45	11:45 12:45	12:45 14:45	15:30 16:30	16:30 17:30	17:30 18:00	18:00 18:45	19:30 23:00
Sat. July 12th	8:45-9:00 WELCOME <i>Energy: The Big Picture</i> Ahmed Hamza H. Ali	<i>Critical materials for energy</i> Alex King	Coffee break	<i>Nuclear energy</i> Claude Degueldre	Lunch break	<i>CO₂ sequestration and recycling</i> Sally Benson	<i>Water-energy nexus</i> Jörg E. Drewes	Coffee break	<i>EU Project "Water"</i> Vittorio Privitera	Dinner
Sun. July 13th	<i>Silicon based photovoltaics, technologies and market</i> Abdelilah Slaoui	<i>Optics for Solar Energy Conversion</i> Harry Atwater	Coffee break	<i>CIGS-CZTS Solar cells</i> Hans-Werner Schock	Lunch break	<i>Next Generations PV OPV/QD/Perovskite s/ETA</i> David Ginley	<i>High-efficiency photovoltaics by nanophotonic design</i> Albert Polman	Coffee break	<i>Distretto Tec. Sicilia Micro e Nano Sisiemi PON Project "Energetic"</i> Salvo Lombardo	Dinner
Mon. July 14th	<i>Concentrated Solar Power</i> Javier Garcia Barberena Labiano	<i>Thermoelectricity Piezoelectricity</i> Anke Weidenkaff	Coffee break	<i>Geothermal</i> Ernst Huenges	Lunch break	Teams work alone solving problems DC+DC with SH		Coffee break	Checking problem results	Dinner Poster session
Tue. July 15th	<i>Photosynthesis</i> David Cahen <u>(8:45-9:45)</u>	<i>Solar fuels</i> William Tumas <u>(9:45-11:15)</u>	Coffee break	<i>BioFuels</i> David Cahen	Lunch break	Excursion + Dinner				
Wed. July 16th	<i>Fuel cells</i> Ryan O'Hayre	<i>Hydrogen</i> Sabrina Sartori	Coffee break	<i>Wind</i> Joachim Peinke	Lunch break	Teams prepare presentations with supervisors			Dinner Poster session	
Thu. July 17th	<i>Batteries and storage</i> Ryan O'Hayre	<i>Smart Grid</i> David Ginley	Coffee break	<i>Patents and law regulations</i> Dannie Jost	Lunch break	Teams prepare presentations with supervisors			Dinner	
Fri. July 18th	<i>Lectures by student teams (6 presentations)</i>		Coffee break	<i>Lectures by student teams (3 presentations)</i>	Lunch break	<i>Trip to Trapani Beach</i>			Social Dinner + Prizes	



International School of Solid State Physics
 "Materials for Renewable Energy"
 62nd Course, Erice (Italy), July 12th – 18th 2014





International School for Materials for Energy and Sustainability (ISMES IV)

July 13 – 20, 2015

Colorado School of Mines • Golden, Colorado USA

Topics

- Global Overview
- Energy Overview
- Critical Materials for Energy
- Energy Analysis
- Unconventional Materials for Energy
- Nuclear Energy Including Fusion
- Gas/Oil/Coal and Fracking
- Solar Energy - PV
- Wind Energy
- Geothermal
- Thermoelectricity/Piezoelectricity
- Building Technology Future
- ... and more

Lecturers

- Harry Atwater :: Caltech
- Sally Benson :: Stanford
- David Cahen :: Weizman Institute
- George Crabtree :: Argonne Labs
- David Ginley :: NREL
- Sossina Haile :: Caltech
- Carolyn Koh :: Colorado School of Mines
- ... and more

Information

<http://csmSPACE.com/events/ismes>

Sponsors





"Materials for Energy and Sustainability-V" 5th course "EPS-SIF International School on Energy" 3rd course 2016, 13-19 July

13-19 July 2016
Erice - ITALY

Erice/Erice University

Ettore Majorana Foundation and Centre for Scientific Culture

79 students (joined with
SIF and EPS school)

16 Italy

5 USA

24 EU (out of Italy)

29 Africa

(EUROSUNMED Project!)

5 Israel

ERICE 2016 PROGRAMME

	8:45am 10:00am	10:00am 11:15am	11:15am 11:45am	11:45am 1:00pm	1:00pm 3:00pm	3:00pm 4:15pm	4:15pm 5:30pm	5:30pm 6:00pm	6:00pm 7:30pm	7:30pm 0:00am
Wed. July 13th	8:30-8:45 Introduction <i>Energy: The Big Picture</i> David Ginley	<i>Critical materials for energy</i> Roderick Eggert	Coffee break	<i>Global warming CO₂ Capture & sequestration</i> Julio Friedmann	Lunch	<i>Energy-Water- Sustainability Nexus</i> Neal Armstrong	<i>Open discussion with students on topics above</i>	Coffee break	<i>Poster session</i>	Dinner + music/drink networking after 9 PM
Thur. July 14th	<i>Geothermal power</i> Adele Manzella	<i>Nuclear power generation now and in the future</i> Friedrich Wagner	Coffee break	<i>Physics and engineering of wind power systems</i> Hermann Josef Wagner	Lunch	<i>Photovoltaics I: Principle/materials/ Inorganics</i> Abdelilah Slaoui	<i>Photovoltaics II: organics/hybrids</i> Alexander Colsmann	Coffee break	<i>Poster session</i>	Dinner + music/drink networking after 9 PM
Fri. July 15th	<i>Materials and energy genome</i> William Tumas	<i>Photosynthesis and Solar fuels</i> David Cahen	Coffee break	<i>Biofuel</i> David Cahen	Lunch	<i>Concentrated solar power: systems</i> Robert Pitz-Paal	<i>Concentrated Solar power: components and materials</i> Abraham Kribus	Coffee break	<i>Poster session</i>	Dinner + music/drink networking after 9 PM
Sat. July 16th	<i>Fuel cells</i> Ryan O'Hayre	<i>Thermal storage</i> Xavier Py	Coffee break	<i>Electrical storage</i> George Crabtree	Lunch	Teams work on Presentations			Dinner + music/drink networking after 9 PM	
Sun. July 17th	<i>Thermoelectricity</i> Anke Weidenkaff	<i>Mechanical Chemical storage</i> Robert Schlögl	Coffee break	<i>Materials for Buildings</i> Matthias Koebel	Lunch (take away)	Excursion + Dinner				
Mon. July 18th	<i>Energy and mobility.</i> Jo Hermans	<i>Power system and market integration of renewable energy</i> Georg Erdmann	Coffee break	<i>Smart grids</i> David Ginley	Lunch	Teams work on Presentations			Dinner + music/drink networking after 9 PM	
Tue. July 19th	<i>Presentations by student teams</i>		Coffee break	<i>Presentations by student teams</i>	Lunch	Free Afternoon			Social Dinner + Prizes	



International School for Materials for Energy and Sustainability (ISMES VI)

July 16-22, 2017

California Institute of Technology

Pasadena, CA



2017 Lecturers

ISMES VI included lectures by world class experts in a broad set of renewable energy to manufacturing.

ISMES VI lecturers were:

- Harry Atwater, California Institute of Technology
- Sally Benson, Stanford University
- David Cahen, Weizmann Institute for Science
- Yi Cui, Stanford University
- Rod Eggert, Colorado School of Mines
- Chris Gearhart, National Renewable Energy Laboratory
- David Ginley, National Renewable Energy Laboratory
- Sossina Haile, Northwestern University
- Christiana Honsberg, Arizona State University
- Mark Jensen, Colorado School of Mines
- Martin Keller, National Renewable Energy Laboratory
- Steven Low, California Institute of Technology
- Ryan O'Hayre, Colorado School of Mines
- Carol Olson, Energy Research Center of the Netherlands
- Antonio Terrasi, University of Catania
- Bill Tumas, National Renewable Energy Laboratory
- Mike Woodhouse, National Renewable Energy Laboratory
- Eli Yablonovitch, University of California, Berkeley
- Neil Fromer, California Institute of Technology



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



International School of Materials for Sustainable Development & Energy - 1st Course

Erice (Italy), July 7th – 12th 2018

Materials for Energy and Sustainability VII (ISMES VII)

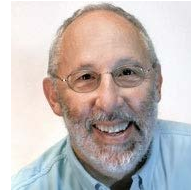
School Directors



Antonio Terrasi



David Cahen



David Ginley



Anke Weidenkaff



Abdelilah Slaoui

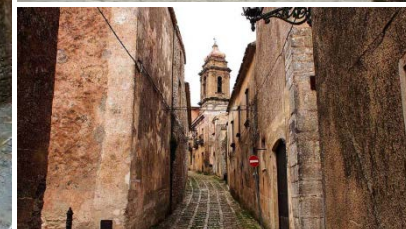
Sponsors e Supporters



Dipartimento di Fisica e Astronomia, Catania



Places and locations





PROGRAMME

ERICE 2018 SCHOOL SCHEDULE: Arrival July 6th, Departure 13th

	8:45 10:00	10:00 11:15	11:15 11:45	11:45 13:00	13:00 15:00	15:00 16:15	16:15 17:30	17:30 18:00	18:00 19:30	19:30 24:00	
Sat. July 7 th	8:30-8:45 Introduction Energy Climate and Sustainability S. Benson	Energy Water Food Nexus D. Ginley	Coffee break	Approaches to CO ₂ Mitigation S. Benson	Lunch	15:00 15:45 Critical Materials D. Ginley	15:45 16:45 1. Exercises 2. Discussion on Energy questions	16:45 17:15 Coffee Break	17:15 18:00 Circular Economy Life cycle analysis D. Ginley	18:15 19:00 Get together Team formation	Dinner + Marsala room
Sun. July 8 th	PV Overview technologies D. Ginley	Nuclear Energy and Fusion F. Wagner	Coffee break	Wind Power Systems H.J. Wagner	Lunch	Energy Storage batteries R. O' Hayre	Energy-efficient transport and its future J. Hermans	Coffee Break	Poster session	Dinner + Marsala room	
Mon. July 9 th	Solar Fuels A. Weidenkaff	Biofuel Biomass I D. Cahen	Coffee break	Biofuel Biomass II D. Cahen	Lunch	Thermal Energy Conversion A. Weidenkaff	Fuel Cells R. O' Hayre	Coffee break	Poster session	Dinner + Marsala room	
Tue. July 10 th	Materials by Design for Energy Applications W. Tumas	Energy Efficiency and the Grid P. Birkner	Coffee break	Health Issues and air pollution F. Forastiere	Lunch (take away) EXCURSION						
Wed. July 11 th	High efficiency low energy cost Si-HJ photovoltaic modules C. Gerardi	Emerging Trends for 21st Energy Technologies S. Sartori	Coffee break	Teams work on Presentation	Lunch	Teams work on Presentation				Dinner + Marsala room	
Thur. July 12 th	Teams work on Presentation				Lunch	15:00-16:00 Antonio Cammiseca ENEL Green Power CEO	16:00-19:30 Team talks			Gala Dinner	

Many topics covered

Materials science and technology applied to the generation, storage, and use of green energy sources for sustainable development.

Global warming, CO₂ sequestration, water-energy, nuclear energy, solar thermal and photovoltaic power, photosynthesis and biofuels, fuel cells, wind energy, thermoelectricity, energy storage, electrical grid, and mobility/transportation.



25 hours of lectures
2 poster sessions
Student Teamwork
Excursion



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

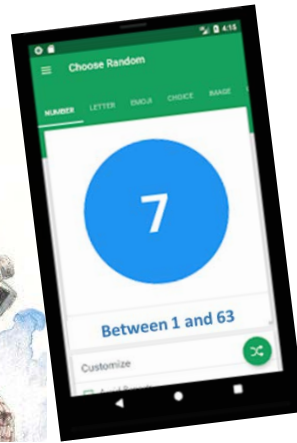


MRS Materials Research Society
European Materials Research Society



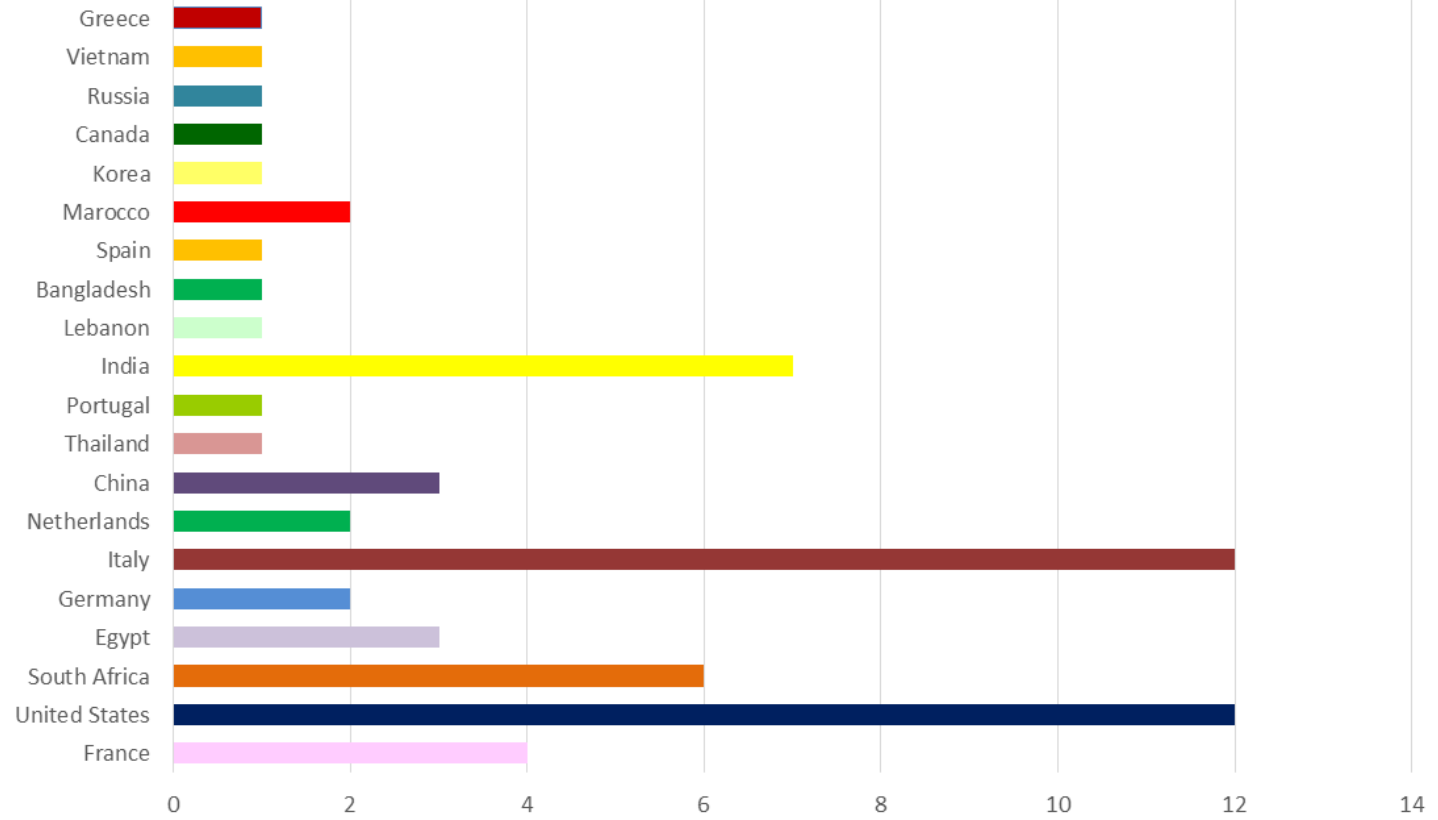
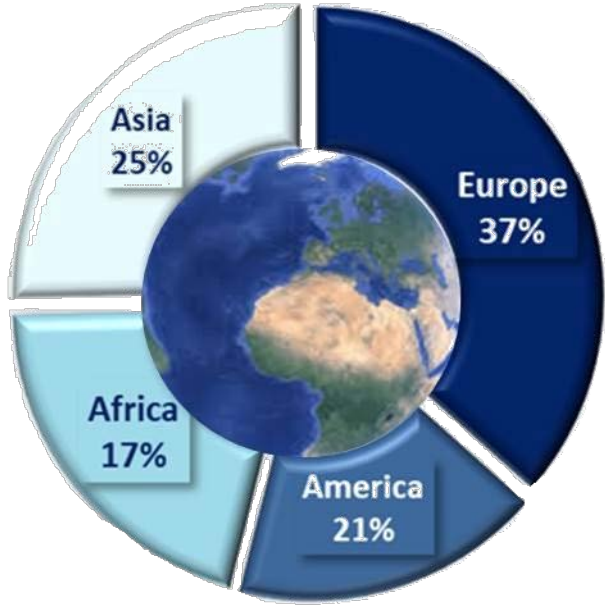
How we manage **LECTURES AND STUDENTS**

Every day seats were randomly assigned to the students to increase their interactions and to avoid the formation of small groups based on native language or scientific background



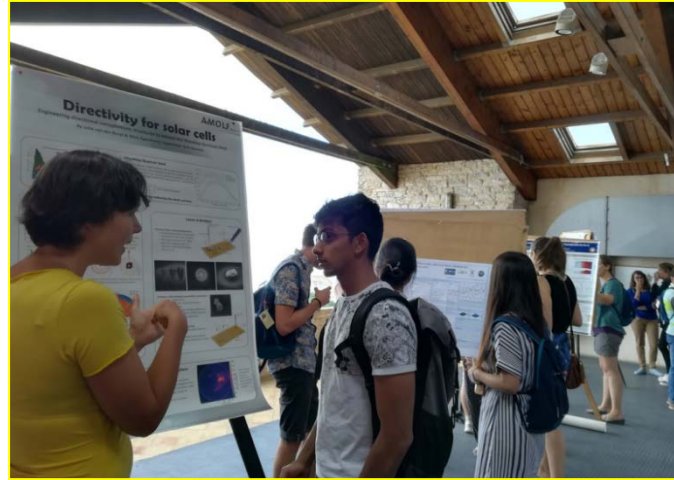


Who attended ?? : **63 STUDENT FROM 20 DIFFERENT COUNTRIES**





POSTER SESSIONS: 52 POSTER PRESENTED



83% of students presented the results of their scientific research

**STRONG SCIENTIFIC INTERACTION
AMONG STUDENTS**



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CENTRE FOR SCIENTIFIC CULTURE

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AND TO ENRICO FERMI, "THE ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



Materials
Research
Society



European
Materials
Research
Society



FINAL AWARD CEREMONY



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



MRS Materials Research Society
MRS European Materials Research Society



Materials for Energy and Sustainability VII (ISMES VII)



International School for Materials for Energy and Sustainability (ISMES VIII)

ISMES VIII

July 21-27, 2019

California Institute of Technology

Pasadena, CA



Topics

ISMES VIII will present a broad perspective of the inte

- Energy, Climate, and Sustainability
- Water, Food, and Materials
- Photovoltaics
- Solar Fuels
- Battery Energy Storage Technology
- Nuclear Energy and Fusion
- Deep Decarbonization
- Techno-economic Analysis
- Materials Recycling and Resource Strategies
- Hydrogen and Renewable Energy Storage
- Life Cycle Analysis
- Biofuels

Confirmed lecturers include:

- Harry Atwater, California Institute of Technology
- Sally Benson, Stanford University
- Adam Bratis, National Renewable Energy Laboratory (NREL)
- David Cahen, Weizmann Institute for Science
- Yi Cui, Stanford University
- Rod Eggert, Colorado School of Mines
- David Ginley, National Renewable Energy Laboratory (NREL)
- Kelsey Horowitz, National Renewable Energy Laboratory (NREL)
- Mark Jensen, Colorado School of Mines
- Audrey Lee, Sunrun
- Franklin M. ("Lynn") Orr, Jr., Stanford University
- Mary Ann Piette, Lawrence Berkeley National Laboratory
- Albert Polman, AMOLF
- Morgan Putnam, REsurety, Inc
- Sabrina Sartori, University of Oslo
- Paul Veers, National Renewable Energy Laboratory (NREL)
- Anke Weidenkaff, Fraunhofer ISC

ISMES – IX Sept. 4-9 2022, University of Catania



ISMES IX in Numbers

Catania September 5th – 9th

Organizers: MRS & E-MRS

Sponsors: University of Catania, EUREC, Enel Green Power

- 39 students from 9 Countries
- 10 Speakers (Italy, USA, Germany, Sweden).
- 3 Speakers from Industry
- 16 h of lectures
- 4 h of poster session
- 2 h of practical session (H₂ production and batteries)
- 1 h exercises
- 10 h of independent work by 8 student teams with a final challenge presentation.
- 2h of guided tour at Enel Green Power Innovation Hub&Lab
- TOPICS:
 - (a) Energy as a global challenge
 - (b) Geothermal heat: conversion and storage
 - (c) Critical Materials
 - (d) Circular and sustainable materials
 - (e) Energy transformation (wind, biofuels, transportation)
 - (f) The Terawatt Challenge (PV)
 - (g) Nuclear Energy: fission and fusion
 - (h) Batteries
 - (i) Electrification
 - (j) Solar fuels, Green H₂
 - (k) Fuel Cells



International School of Materials for Sustainable Development & Energy

Materials for Energy and Sustainability -X

Erice (Italy), July 2nd – 9th 2023





International School for Materials for Energy and Sustainability - ISMES 2024

June 10-15, 2024

Colorado School of Mines
Golden, Colorado



	7:00 8:00	8:00 9:15	9:15 10:30	10:30 11:00	11:00 12:15	12:15 13:00	13:15 14:30	14:30 15:45	15:45 17:00	17:00 18:30		
Mon. 10th	Breakfast	Peter Green Challenges to Sustainability (NREL)	David Ginley Electrification of everything (NREL)	Coffee break	David Cahen Biofuels Weizmann Inst	Lunch	Bob Clark-Phelps Industrial PV (First Solar)	Brainstorming on today's lectures	Coffee Break during poster session		Dinner + Student Union	
Tues. 11th	Breakfast	Andrea Ambrosini High Temp. Solar Fuels (Sandia)	Eric Payne Technology Transfer (NREL)	Coffee break	Peter Birkner Transformation of Energy Systems (House of Energy e.V.)	Lunch	Ariel Furst Carbon Sequestration/ CO ₂ Chemistry (MIT)	Kandler Smith Batteries (NREL)	Coffee Break	Brainstorming on today's lectures	Dinner + Student Union	
Wed. 12th	7:00 8:00	8:00 9:00	9:00 12:15		Lunch		12:15 13:00	13:15 14:30	14:30 15:45	15:45 16:15	16:15 17:00	17:00 18:30
	Breakfast	Jeff King Nuclear (CSM)	Federal Center Reactor Tour/ Red Rocks Tour			Lunch	Hanno Erythropel Green Chemistry (Yale U.)	Ryan O'Hayre Fuel cells and electrolysis (CSM)	Coffee Break	Brainstorming on today's lectures	Dinner + Student Union	
Thur. 13th	7:00 8:00	8:00 9:15	9:15 10:30	10:30 11:00	11:00 12:15	12:15 13:00	13:15 14:30	14:30 17:00			17:00 18:30	
	Breakfast	Richard Boardman Green Hydrogen (PNNL)	Daniel Laird Wind Power and Integration (NREL)	Coffee break	Rod Eggert Critical Materials (CSM)	EXCURSION (SACK LUNCH ON BUS) + DINNER						
Fri. 14th	Breakfast	Robert Allen Chemistry from carbon sequestration to recycling (NREL)	Julien Walzberg Modeling Energy Systems (NREL)	Coffee break	Roundtable on big data and its energy requirements	Lunch	Exercise Solutions & Assign. of team presentations (15-16:00)	Teams work on Presentations		Dinner + Student Union		
Sat. 15th	Breakfast	Teams work on Presentations				Lunch	Team talks and Evaluation			Gala Dinner		