



RENEWABLE ENERGY

Summer School

Cairo, July 6-11, 2019

The School is addressed to high level graduated trainees from MENA Countries, interested to grow their specialization in Renewable Energy Technologies. The course is specifically **focused on new Renewable Energy technologies** for distributed heat and power production **and their sustainable management**. Special emphasis will be given to **concentrating Solar technologies**, solar **energy storage**, water **desalination**, **renewable fuels** (derived from biomass, waste or solar energy). The course will also show **socio-economic potentials** and the **integration of technologies** to satisfy energy demand for next generations in sun belt countries.



Venue

Academy of Scientific Research and Technology (ASRT), 101 Kasr El-Ainey Street, Cairo, Egypt

Site visits at: MATS plant in Borg El Arab, STS-Med plant in Sekem.

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Program

Saturday, 6th July 2019, Cairo	
8:30	Registration formalities
9:00	Institutional Welcome Prof. Mahmoud Sakr, President of ASRT H. E. Dr. Giampaolo Cantini, Ambassador of Italy
10:00	Introduction to the Course Prof. Amr Amin (ASRT), Prof. Vincenzo Naso (CIRPS), Dr. Alberto Giaconia (ENEA) - The cycle of energy: primary energy sources, energy conversion and transformation, end uses - Updated review of new and renewable energy technologies - Sustainable energy management
11:00	Lectio Magistralis Prof. Luigi Paganetto, Deputy President "Cassa Depositi e Prestiti" (invited) Prof. Francesco La Camera, Director General of the International Renewable Energy Agency – IRENA (invited)
12:00	EU research policy in Renewable energies and Energy efficiency Prof. Riccardo Basosi (CIRPS-University of Siena)
13:00	Lunch break
14:00	Biogas and Syngas production from biomass and waste to 4-cogeneration: heating, cooling, electricity, hydrogen Prof. Enrico Bocci (CIRPS-University "Guglielmo Marconi")
16:00	Q&A

Sunday, 7th July 2019, Cairo	
9:00	Photovoltaic Technology: manufacturing, design and applications Prof. Serag Habib (Cairo University)
11:00	Concentrating Solar Technology: principles, design and applications Prof. Maurizio De Lucia (CIRPS-University of Florence)
13:00	Lunch break
14:00	Concentrating Solar Technology: principles, design and applications Dr. Alberto Giaconia (ENEA)
15:30	Solar Desalination Prof. Hassan El-Banna Fath (Egypt-Japan University of Science and Technology)
17:00	Q&A



Monday, 8th July 2019, Sekem	
9:00	<i>Transfer from Cairo to Sekem</i>
11:00	<i>Full-day visit of the Linear Fresnel plant, with on-field training</i> Guided by Prof. Rady (ASRT)
16:00	<i>Transfer from Sekem to Cairo</i>

Tuesday, 9th July 2019, Cairo	
9:00	<i>Mini and micro energy production, energy storage; smart meters and smart grids. Integrated energy systems</i> Prof. Umberto Desideri (CIRPS-University of Pisa)
11:00	<i>Small-scale Concentrated Solar Power Systems: lessons learned from demo prototypes and perspectives</i> Dr. Eng. Luca Cioccolanti (CIRPS-University eCAMPUS)
13:00	<i>Transfer from Cairo to Borg El Arab</i>

Wednesday, 10th July 2019, Borg El Arab	
8:00	<i>Transfer from Cairo to Borg El Arab</i>
11:00	<i>Full-day visit of MATS plant, with on-field training</i> Guided by Dr. Alberto Giaconia (ENEA)
17:00	<i>Transfer from Borg El Arab to Cairo</i>

Thursday, 11th July 2019, Cairo	
9:00	<i>Round Table & Open Discussion</i> Moderated by Lecturers - Socio-economic potentials Integration of RE technologies - Life Cycle Assessment Sustainable energy management
13:00	<i>Lunch break</i>
14:00	<i>End of the course and cultural events</i>



Contacts

Secretariat of Scientific Committee

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