

Whereas renewable cooling and heating is more and more a hot topic in the energy world, a new generation of solar cooling and heating systems is appearing from labs and in the market. Consisting both in solar thermal or photovoltaic, the concepts are oriented to cost reduction and long term reliability.

A new IEA Solar Heating and Cooling programme name Task 53 is exactly addressing this new generation and will present during this workshop the latest ongoing development on this topic.

<http://task53.iea-shc.org/>

Seminar Chairman: Dr. Daniel Mugnier

Operating Agent, IEA SHC Task 53

INTRODUCTION (15.00-15.15)

General presentation of IEA SHC Task 53
(Daniel Mugnier, TECSOL)

PRESENTATION OF LATEST ONGOING RESULTS AND DEVELOPMENTS IN PV AND THERMAL SOLAR COOLING (15.20 - 18.40)

15.20-15.40 *Phase Change Materials (PCMs) for energy storage in Thermal Solar Cooling Systems*

(Andrea Frazzica, CNR-ITAE)

15.40-16.00 *Solar cooling by Pleion: a case study in Sicily*

(Filippo Gangi, Pleion s.r.l.)

16.00-16.20 *Freescoo, a new idea of solar air conditioning*

(Pietro Finocchiaro, SolarInvent s.r.l.)

16.20-16.40 *Solar Thermal Cooling with Adsorption Chillers – Experiences and Consequences for Future Projects*

(Gabriele Penello, SORTECH AG.)

16.40-17.00 *PV Solar Cooling for Air Conditioning and DHW*

(Pedro Vicente, UMH)

17.20-17.40 *Investigation on advanced batteries for PV electric cooling and building energy demand*

(Francesco Sergi, CNR-ITAE)

17.40-18.00 *An innovative HCPV/T collector and its potential SHC applications*

(Filippo Paredes, IDEA s.r.l.)

18.00-18.20 *High temperature SHC systems with LFR collectors and molten salts thermal storage*

(Fabio Montagnino, Consorzio ARCA)

18.20-18.40 *Package label for promoting solar thermal in energy systems in EU countries*

(Dario D'Alessandris, ASSOLTERM)

TECHNICAL, ECONOMICAL AND ENVIRONMENTAL ASPECTS OF THE NEW GENERATION SOLAR COOLING SYSTEMS. (18.40-19.00)

Discussion on technical, economical and environmental aspects of the new generation solar cooling



**Registration is required
Please register by 31st March.**

Register by sending an e-mail to vasta@itae.cnr.it

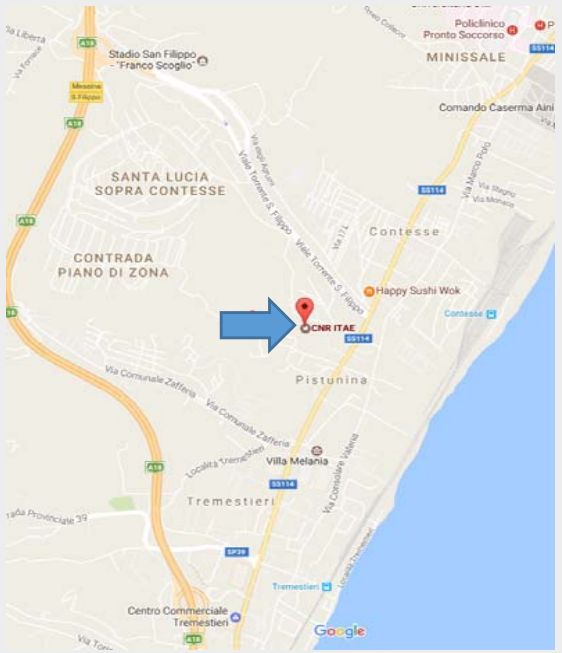
Venue

CNR-ITAE

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98126 S. Lucia, Messina
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15.525811 E



For
INFORMATION

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REGISTRATION

Please register before 31st March
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Task 53 Workshop

**“NEW GENERATION OF SOLAR
COOLING AND HEATING SYSTEMS
DRIVEN BY PHOTOVOLTAIC OR SOLAR THERMAL
ENERGY”**

20th April 2017 - 15.00
Auditorium of CNR-ITAE

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SHC Task 53

**New Generation Solar
Cooling & Heating**