

Invitation to the workshop “Technologies for solar cooling in tropical climates” & guided tour of world’s largest solar cooling System On April 5th, 2013

Solar thermal cooling is a very promising technology for tropical climates like in South East Asia. First systems both with absorption chillers and desiccant systems were realized in Singapore, among them the world’s biggest solar thermal cooling system at the Tampines Campus of United World College of South East Asia.

This event is followed by four other events on solar cooling in cooperation with the international energy agency’s solar heating and cooling programme. After the workshop in Singapore, there will be an expert meeting, a training course, a site visit tour and a conference in the week after in Australia.

Main topics of the Singapore workshop:

- Absorption chilling
- Desiccant technologies
- Heat rejection
- Economics, financing

Time: 0830 - 1730
Venue: UWCSEA East Campus, 1 Tampines Street 73 Singapore 528704;
(Guided tour of World’s largest Solar Cooling Plant)
Cleantech One, 1 Cleantech Loop, Singapore 637141
(Workshop @ Conference Room)

Please register till March 25th with: **Patrick Soo;** p.soo@sp.solid.at

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**Workshop „Technologies for solar cooling in tropical climates“ on April 5th
Preliminary agenda:**

8.30	Registration and Welcome @ UWCSEA East Campus, 1 Tampines Street 73, Singapore 528704
	Guided Tour of the World's Largest Solar Cooling Plant
10.15	Pre-arranged Transport to Cleantech One, Cleantech Park – Singapore's First Eco-Business Park for workshop
11.00	Registration for Workshop at Cleantech One Conference Room
11.15	Welcome Speech by Austrian Ambassador, tbc
11.30	Presentation of solar cooling plant UWC Singapore (Moritz Schubert, Solid Austria)
12.00	Lunch Break
12.45	The IEA SHC programme (Alexander Morgenstern, Fraunhofer ISE, Germany)
	IEA SHC Task 48: Quality Assurance & Support Measures for Solar Cooling Systems (Alexander Morgenstern, Fraunhofer ISE, Germany)
13.30	Singapore's activities in IEA SHC programme (Kian Seng ANG, Director, Research Building and Construction Authority, IEA SHC Executive Committee Member for Singapore, tbc)
14.00	Development of new absorption chillers and latent heat storages (Martin Helm and Manuel Riepl, ZAE Bayern, Germany)
14.30	Solar DEC's for humid climates: test and researches at University of Palermo (Marco Beccali, DEIM, University of Palermo, Italy)
15.00	Prototype operation of the open sorption based air-conditioning system (ECOS) under tropical conditions joint presentation by Arifeen Wahed (SERIS, Singapore) and Alexander Morgenstern (ISE, Germany)



Task 48



Energy Research Institute @ NTU



15.30	Tea Break
16.00	Presentation of NTU Singapore
16.30	Final words of organisers (Solid and co-organising partners)
	Question and answer session
17.30	Cocktail

Project-homepage: <http://task48.iea-shc.org/> .

Homepages of organizers: <http://erian.ntu.edu.sg/Pages/Home.aspx>
www.solid.at