

(as of August 02)

Program 7th International Workshop on Solar Air Conditioning

Tuesday, October 31, 2017

08:30 Keynote: (tbc)

SOLAR COOLING SYSTEM INTEGRATION

Chair: Stephen D. White (CSIRO)

09:00 Welcome to the SolAirCon Workshop
Daniel Mugnier, TECSOL

09:10 Energy Storage for PV-Driven Air-Conditioning for an Off-Grid Resort – An Energy and Economic Assessment
Christoph Luerssen, Solar Energy Research Institute of Singapore (SERIS)

09:30 Solar-Electric Driven Heating and Cooling System with PCM-Storage for Improved Grid Connection
Richard Schex, Bavarian Center for Applied Energy Research (ZAE Bayern)

09:50 Multi-Functional FaÇade with PV for Solar Autonomous Cooling Applications
Tim Selke, AIT Austrian Institute of Technology GmbH

10:10 First Steps in Design and Simulation of the Control Unit of a Continuous Cooling System Driven by Solar Thermal Energy and Using an Aquifer Thermal Storage
Maryam Al Lawati, GFZ German Research Center for Geosciences

10:30 Coffee Break

INNOVATIONS IN SOLAR COOLING TECHNOLOGY

Chair: Marco Beccali (UNIPA)

11:00 Testing and Simulation of a Solar Diffusion-Absorption Refrigeration System for Low-Cost Solar Cooling in India
James Freeman, Imperial College London

11:20 Efficient Solar Cooling by Using Variable Effect LiBr-H₂O Absorption Chiller and Linear Fresnel Solar Collector with Cavity Receiver
Yanjun Dai, Shanghai Jiao Tong University

11:40 Development of a Low Carbon Coupling Device for Solar Cooling (Photovoltaic + Heat Pump)
Mugnier

12:00 The “All in One” smart solar cooling system
Esam Elsarrag, GORD

12:20 Assesment of a Solar Powered Refrigerator Equiped with Thermal Storage for a Dairy Application
Adriana-Clemencia Coca Ortegón, Universitat Rovira i Virgili

12:40 Sensitivity Analysis on the Technical and Economic Performance of Thermal and PV Driven Solar Heating and Cooling Systems
Daniel Neyer, University of Innsbruck

7th International Workshop on Solar Air Conditioning

*in conjunction with SWC and SHC 2017
31 Oct 2017, Abu Dhabi, UAE*

13:00 Lunch

POSTER SESSION

14:00 details will follow soon

15:30 Coffee Break

PRACTICAL EXPERIENCE WITH SOLAR COOLING

Chair: Christian Schweigler (HM)

- 16:00 Practical Efforts on SHC System with Passive House in China
Wei Zheng, Yazaki Energy System Corporation Beijing
- 16:20 Monitoring and Energy Performance Assessment of an Advanced Dec Hvac System in Morocco
Marco Beccali, Università di Palermo, Dept. DEIM
- 16:40 Solar Cooling Around the World – Innovative Low Carbon Solutions for Nicaragua, Singapore and Austria
Nicole Olsacher, S.O.L.I.D. Gesellschaft für Solarinstallation und Design mbH (tbc)
- 17:00 First Solar-Driven Air Conditioning System in Kuwait Using Double-Stage Absorption Chiller and High-Vacuum Solar Thermal Flat Plates
Jonathan Koifman, TVP Solar (tbc)
- 17:20 Performance Analysis of Solar Desiccant Cooling System Integrated with M-Cycle Evaporative Cooler
Ghulam Qadar Chaudhary, University of Engineering and Technology Taxila Pakistan
- 17:40 Closing remarks
Daniel Mugnier, TECSOL