Solar Cooling Training Course

Thursday 11 April 2013
10:00 – 16:00 (followed by conference dinner)
Earth Sciences Centre Main Conference
Riverside Corporate Park, 11 Julius Avenue, North Ryde

This course will be led by Dr. Stephen White (CSIRO Solar Cooling Research Leader, ausSCIG Chair, IIR Australia Chair) and international solar cooling expert Daniel Mugnier (TECSOL (France), IEA Task 48 Operating Agent).

The course is designed as an overview of technical, economic and bigger picture aspects of solar cooling for newcomers to the industry. It will also provide design tips and technical case studies for industry specialists.

Topics to be covered include:

- Solar Cooling Basics
- Solar airconditioning equipment options and suppliers
- Selection considerations
- Solar airconditioning benefits, greenhouse gas savings and economics
- Flowsheets, controls and system integration
- Equipment sizing
- Modelling and performance evaluation
- Do’s and don’ts
- Case studies

Following the course, dinner has been organised in Canberra City. Partners and guests are welcome to attend the dinner – please see below for additional cost.

Dinner

Dinner is included for Solar Cooling Training Course attendees.

Guests and partners are also welcome to attend at additional cost.
Australian Solar Cooling 2013 Conference Dinner $100

Thursday 11 April 2013
19:00 – 21:00
North Ryde

19.00 - 21.00 Australian Solar Cooling 2013 Conference Dinner
Fourno, 56 Delhi Rd, North Ryde

Arrangements for guests and partners of attendees can also be made at additional cost (please note when registering).

Australian Solar Cooling 2013 Conference $410

Friday 12 April 2013
09:00 – 17:00
Auditorium
CSIRO Riverside Life Sciences Centre, North Ryde

09.00 - 09.10 Welcome by ausSCIG Chair, Dr. Stephen White
Plenary Session I: Regional Industry Reports Chair: Stephen White

09.10 - 09.40
• Europe, Dr. Uli Jakob - Green Chiller Association
• China, Prof. Yanjun Dai - Shanghai Jiao Tong University

09.40 - 10.10
• Australia, Jeremy Osborne – Solem Consulting

10.10 - 10.40 Morning Tea Break

11.10 – 12.30 Parallel Technical Sessions – I

<table>
<thead>
<tr>
<th>Components</th>
<th>Industry Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Frank Bruno (UniSA)</td>
<td>Chair: Dr. Françoise Burgun (UNSW)</td>
</tr>
<tr>
<td>11.10 – 11.30 T. Anderson (Auckland University of Technology) Performance of an unglazed solar collector for radiant cooling</td>
<td>M. Goldsworthy (CSIRO) Development of a solar airconditioning standard</td>
</tr>
<tr>
<td>11.30 – 11.50 P. Finocchiaro (Uni Palermo) New DEC open cycle for air-conditioning based on fixed cooled adsorption beds and wet heat exchangers</td>
<td>M. Schubert (SOLID) ESCO financing options for solar cooling</td>
</tr>
<tr>
<td>11.50 – 12.10 M. Safarik (ILK Dresden) Component development and first test results of a directly air-cooled water/LiBr absorption chiller</td>
<td>I. Doemland (Australian National University - ANU) Air conditioning penetration and its electricity demand in Australia</td>
</tr>
</tbody>
</table>

Register at www.auusscig.org/conference
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.10 – 12.30</td>
<td>R. Critoph (Warwick Uni)</td>
<td>Potential of and application niches for adsorption chillers in solar heating and cooling</td>
</tr>
<tr>
<td>12.30 – 1.00</td>
<td></td>
<td>Lunch</td>
</tr>
<tr>
<td>1.00 – 1.45</td>
<td>D. Wu (Uni Melbourne)</td>
<td>A financial analysis of solar cooling systems in Australia</td>
</tr>
<tr>
<td>1.45 – 2.15</td>
<td>Plenary Session II: Industry Developments</td>
<td>Chair: Daniel Rowe</td>
</tr>
<tr>
<td>2.15 – 2.45</td>
<td>• Potential for Innovative Technologies in the NSW Energy Savings Scheme, Michael Oppermann – NSW OEH</td>
<td></td>
</tr>
<tr>
<td>2.45 – 3.15</td>
<td>• AIRAH Solar Cooling Special Technical Group Launch, Phil Wilkinson – AIRAH, Stephen White – CSIRO</td>
<td></td>
</tr>
<tr>
<td>3.15 – 3.30</td>
<td>Afternoon Tea Break</td>
<td></td>
</tr>
<tr>
<td>3.30 – 3.50</td>
<td>Parallel Technical Sessions - II</td>
<td></td>
</tr>
<tr>
<td>3.30 – 3.50</td>
<td>Systems</td>
<td>Case Studies</td>
</tr>
<tr>
<td>3.30 – 3.50</td>
<td>M. Riepl (ZAE Bayern)</td>
<td>A. Morgenstern (Fraunhofer ISE)</td>
</tr>
<tr>
<td>3.30 – 3.50</td>
<td>All-in-one solar thermal heating and cooling system</td>
<td>First results of a pilot installation of a solar thermally driven cold store</td>
</tr>
<tr>
<td>3.50 – 4.10</td>
<td>D. Whaley (Uni SA)</td>
<td>M. Ono (Mayekawa)</td>
</tr>
<tr>
<td>3.50 – 4.10</td>
<td>The development of and preliminary experimental performance of a novel integrated solar thermal system for domestic heating, cooling and dehumidification</td>
<td>Cooling and Heating Air Conditioning based on Adsorption Chiller and Solar Heat: Eco School project</td>
</tr>
<tr>
<td>4.10 – 4.30</td>
<td>Y. Elgart (Engineering Scientific International)</td>
<td>M. Schubert (SOLID)</td>
</tr>
<tr>
<td>4.10 – 4.30</td>
<td>Combined Photovoltaic-Thermal solar collector based on heat pipes for solar HVAC</td>
<td>Experiences from Operation of the UWC Singapore Solar Cooling Plant</td>
</tr>
<tr>
<td>4.30 – 4.50</td>
<td>D. Mugnier (TECSOL)</td>
<td>J. Dreyer (NEP Solar)</td>
</tr>
<tr>
<td>4.30 – 4.50</td>
<td>DHW/cooling hybrid strategy for solar cooling: Demo and first monitoring results</td>
<td>Charlestown Square high efficiency solar cooling system</td>
</tr>
<tr>
<td>4.50 – 5.00</td>
<td>Summary and Closing Address, Dr. Stephen White</td>
<td></td>
</tr>
</tbody>
</table>

Register at www.auссcig.org/conference
Address

CSIRO Riverside Life Sciences Centre
Riverside Corporate Park
11 Julius Avenue
North Ryde

Contact

Organiser: Daniel Rowe – (02) 4960 6155
Site: Reception – (02) 9490 5000

Register at www.ausscig.org/conference
Accommodation

Close to CSIRO North Ryde
*Book Promptly – Fills Up Very Quickly*

Quest North Ryde
58–62 Delhi Road,
North Ryde NSW 2113
Ph: +61 2 8899 8888
F: +61 2 8899 8899

Email: questnorthryde@questapartments.com.au

Stamford Grand North Ryde

Stamford Grand North Ryde
Cnr Epping & Herring Roads
North Ryde, NSW 2113
Ph: +61 2 9888 1077
F: +61 2 9805 0655

Booking ID for conference rate: CS1104
(current rate $205/night standard superior king suite – 1 x full buffet breakfast included).

Email: sales@snr.stamford.com.au
Website: http://www.stamford.com.au/sgnr/

Travelodge Macquarie North Ryde

Travelodge Maquarie North Ryde
81 Talavera Road
North Ryde NSW 2113
Ph: +61 2 8874 5200
F: +61 2 8874 5300

Email: tmqr@travelodge.com.au

Cheap/Cheaper Accommodation

Wotif – http://www.wotif.com

Register at www.ausscig.org/conference
Invitations and Visas – For International Attendees

Please ensure you check the entry requirements for your country of origin well in advance of the conference to allow sufficient time for visa processing (if required).

A letter of invitation can be organised once a registration payment for the conference has been made.

To request this, please contact Daniel.Rowe@csiro.au and include the following details:

- Passport number
- Surname (as per passport)
- Given Name (as per passport)
- Passport Date of Issue
- Passport Date of Expiry
- Passport Country of Residence
- Passport Place of Issue
- Date of Birth
- Gender