

2nd expert meeting

IEA SHC Task 53

New Generation Solar Cooling & Heating Systems (PV or solar thermally driven systems)

at Mälardalen University, School of Business, Society & Engineering
Box 883 ; 721 23 Västerås, Sweden

Phone: +46(0)21-10 31 82, richard.thygesen@mdh.se

www.mdh.se



October 7-8, 2014, 09:00 – 17:00

Agenda - Final Version

How to reach the meeting place :

The meeting place is located at Expectrum, Kopparbergsvägen 10, in Västerås, Sweden.
In annex of the agenda, see more details on how to reach the place.

Participation fee:

The participation fee is **100 EUR** and includes the room, coffee breaks and lunch on Tuesday and Wednesday noon. The Meeting fee has to be paid by credit card to Mälardalen University when arriving to the meeting on 07/10 – you will get a receipt of your payment.

Accommodation:

Thanks to the proximity of the meeting place and the university (10 min walk) the following hotels are recommend:

- Elite Stadshotellet (<http://www.elite.se/eng/index>)
- First Hotel Plaza (<http://www.firshotels.com/Our-hotels/Hotels-in-Sweden/Vasteras/First-Hotel-Plaza/>).
- For a budget alternative Hotel Västerås (<http://www.hotellvasteras.se/>) is recommended.

For further informations, see annex of the agenda.

Meeting Rooms at Expectrum:

The Hub

Final version – 03/10/2014

Agenda for Tuesday 07th of October 2014 (9:00am-5:00pm)

1st block : Plenary – Mälardalen University - Meeting Room The Hub

09.00-09.15	Welcome and Organisational issues	Daniel Mugnier Richard Thygesen	TECSOL MDH
09.15-09.30	Welcome, Introduction, Structure of the meeting	Daniel Mugnier	TECSOL
09.00-10:00	Subtask A : Goals, structures, deliverables <i>Components, Systems & Quality</i>	Tim Selke	AIT
10.00-10:30	Subtask B : Goals, structures, deliverables <i>Control, Simulation & Design</i>	Robert Fedrizzi	EURAC
10.30- 11 :00	Coffee Break		
11.00-11:30	Subtask C : Goals, structures, deliverables <i>Testing and demonstration projects</i>	Richard Thygesen	MDH Uni
11.30-12:00	Subtask D : Goals, structures, deliverables <i>Dissemination & market deployment</i>	Daniel Mugnier	TECSOL

12.00-14:00 Lunch Break at Mälardalen Uni restaurant on ground floor level (10 minute walk)

2nd block : Latest developments & results session - Mälardalen University - Meeting Room The Hub

14.00-14.20	Updated state of the art on PV cooling	Daniel Mugnier	TECSOL
14.20-14.40	Presentation of the actual state of development of the sorption collector with air based cooling/heating system solar active façade module	Björn Nienborg	FhG ISE
14.40-15:00	Excel tool to estimate the potential for self consumption of PV electricity for DHW, heating, cooling and electric devices	Björn Nienborg	FhG ISE
15.00-15.20	New Austrian project CiQuSo started	Tim Selke	AIT
15.20-15.50	Monitoring Procedure for Compression Heat Pumps Driven by Photovoltaic Energy Internal method	Pedro G. V. Quiles	UMHE

15:50- 16 :30 Coffee Break

16.30-17:00 Activity leader panel forum on activity level vision,
workplans and scope overlap Activity leaders

End of the working Day 1

Final version – 03/10/2014

Gala Dinner on Tuesday at 8:00 p.m.:

We will have the pleasure to be guests at Brasserie Stadsparken.

The adress of our restaurant:

Stora gatan 35
72212 Västerås

See the annex for instructions on how to go there.

Meeting points 6:30 p.m. at Hotel Västerås (City Centre) or at 6:45 p.m. at Elite stadshotellet (City Centre). At our meeting we will give advice how to get there.

Agenda for Wednesday 8th of October 2014 (9:00am-4:00pm)

Working groups : block 2 Expectrum - Meeting Room The Hub

09:00-09:15 Organization of Group discussions on Work Package level (5-6 people max per item) Daniel Mugnier TECSOL

09:15-11:00 Meeting in parallel on Work Package level; Suggested topics for working groups are:

*** Subtask A : *Expectrum - Meeting Room The Hub***

- A1. Reference systems (Fraunhofer ISE)
- A2. New generation systems configurations (TECSOL)
- A3. Storage concepts & management (Fraunhofer Umsicht)

*** Subtask B : *Expectrum - Meeting Room The Hub***

- B1. Reference conditions (EURAC)
- B2. Grid access conditions and building load management analysis (AIT)

*** Subtask C : *Expectrum - Meeting Room The Hub***

- C1: Monitoring procedure and monitoring system selection criteria (AEE Intec)
- C2: System description for field test and demo project (AIT)

11:00- 11:30 Coffee Break

11:30 - 13:00 Visit of Mälardalen University facilities

11:30 –12.30 Guided tour of our educational labs which includes boilers, heat pumps, chemistry and building labs. Professor Erik Dahlquist

13:00 - 14:00 Lunch Break at Mälardalen University restaurant on ground floor level (1 minute walk)

14.00 – 16.00 Plenary & overall Expectrum - Meeting Room The Hub

14.00-14.30	Subtask A : Report on working group items; planning of next steps; distribution of work; action items	Tim Selke	AIT
14.30-15.00	Subtask B : Report on working group items; planning of next steps; distribution of work; action items	Roberto Fedrizzi	EURAC
15.00-15.30	Subtask C : Report on working group items; planning of next steps; distribution of work; action items	Richard Thygesen	MDH
15.30-16.00	Subtask D : Report on working group items; planning of next steps; distribution of work; action items	Daniel Mugnier	TECSOL
16.00-16.30	General items, next meetings, miscellaneous	Daniel Mugnier	TECSOL

Agenda for Thursday 9th of October 2014 (9:30am-13:30pm)

Solar cooling Workshop organized by Climatewell

Location : Löfbergs Lila AB, 652 16 Karlstad, Sweden

Travel to Karlstad:

A bus will take the participants to Karlstad from Västerås at **07:00 October 9th**

Pickup places are at Elite Stadshotellet, First Hotel Plaza and Hotel Västerås.

Program : see next page.

IEA SHC Task 53

New Generation Solar Cooling & Heating Systems (PV or solar thermally driven systems)

at Löfbergs Lila AB
652 16 Karlstad, Sweden



Thursday October 9, 2014, 8:30 – 13:30

Workshop - Final Version

Travel to Karlstad:

A bus will take the participants to Karlstad from Västerås at **07:00 October 9th**
Pickup places are at Elite Stadshotellet, First Hotel Plaza and Hotel Västerås.

Plenary – Löfbergs AB - Meeting Room 10th floor

09.30-09.45	Welcome and introduction	Daniel Mugnier Per Olofsson	TECSOL ClimateWell
09.45-10.15	Presentation of the first results from subtask A: Survey of existing new generation systems	Tim Selke	AIT
10.15-10.45	Presentation of the research and development work, leading up to the Suncool collectors	Per Olofsson /Göran Bolin	ClimateWell
10.45-11.00	Presentation of the system solution and control strategy	Olof	ClimateWell
11.00- 11.45	Visit to the demonstration installation		
11.45-12:00	Presentation of measurement data from the installation	Corey	ClimateWell
12.00-12:15	Presentation of lessons learned from the system engineering and installation	Olof/Corey	ClimateWell
12.15-13:30	Work-shop with Q&A and discussion around 2-3 research topics.	Olof/Corey	ClimateWell

Final version – 03/10/2014

List of confirmed participants for the 2nd Expert meeting (status on 03/10)

		Company/Institute	Country
1	Roberto Fedrizzi	EURAC	Italy
2	Björn Nienborg	Fraunhofer ISE	Germany
3	Daniel Mugnier	TECSOL	France
4	Matthias Rouge	Fribourg Engineering (CH) school	Switzerland
5	Tim Selke	AIT	Austria
6	Bettina Nocke	AEE INTEC	Austria
7	Anton Soppelsa	EURAC	Italy
8	Pedro Vicente Quiles	Universidad Miguel Hernández de Elche	Spain
9	Björn Karlsson	MDH	Sweden
10	Richard Thygesen	MDH	Sweden
11	Markus Brychta	UIBK	Austria
12	Johan Lindahl	Uppsala University	Sweden
13	Petter Törling	Absolicon	Sweden
14	Bengt Stridh	ABB	Sweden

Logistics for Expert meeting

How to reach the meeting place :

The meeting place is located at Expectrum, Kopperbergsvägen 10, in Västerås, Sweden.

From Arlanda

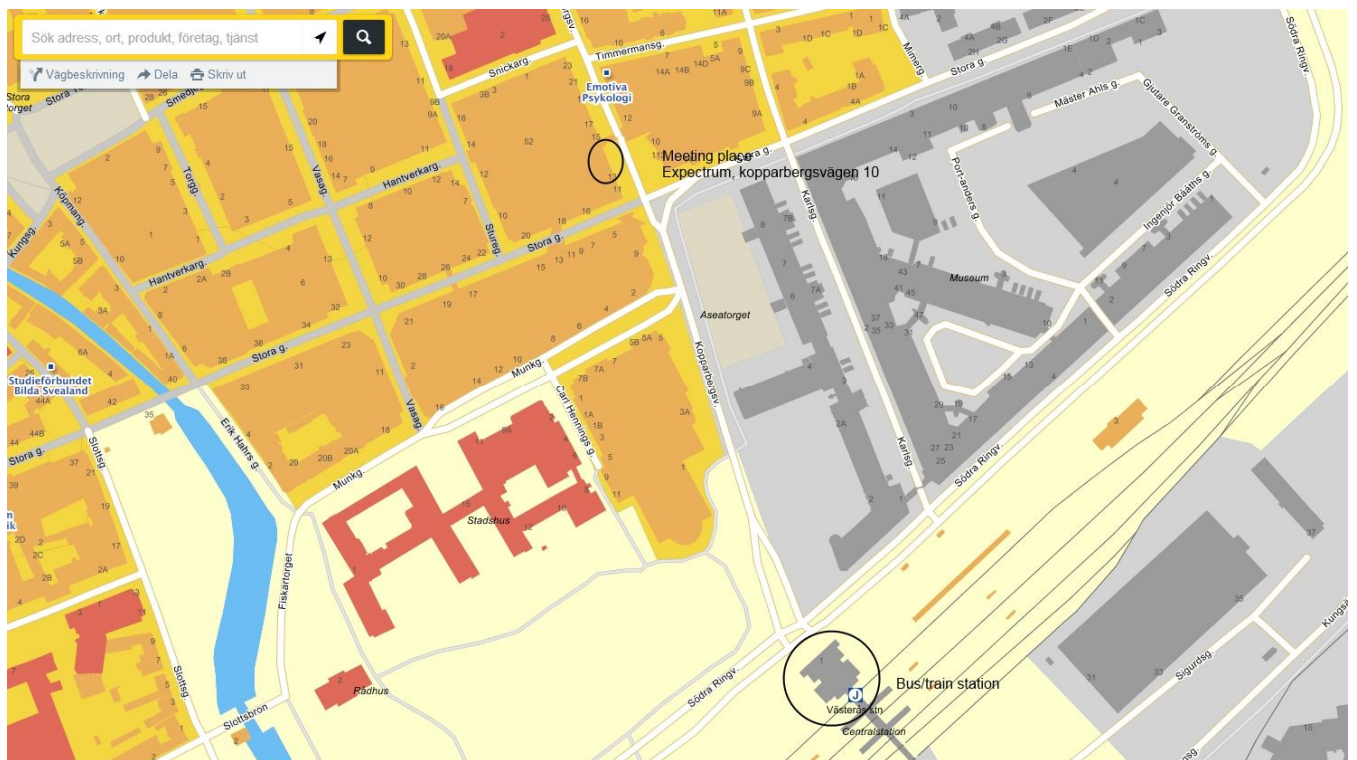
Take the train at Arlanda Sky City which is situated between terminal 4 and 5.

Go to Stockholm central station and from there take a train to Västerås.

As an alternative take the high speed train from the Arlanda main entrance to Stockholm central station.

From Västerås bus/train station:

Cross Södra ringvägen and go straight on Kopperbergsvägen to nr. 10.



Accommodation:

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Gala Dinner on Tuesday at 8:00 p.m.:

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