

## 9<sup>th</sup> expert meeting

### IEA SHC Task 53

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

ILK Dresden, Bertolt-Brecht-Allee 20, Dresden (Germany)

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### Meeting Agenda – Final Version

Tuesday April 10<sup>th</sup>, 2018, 9:00am – 18:00 pm  
Wednesday, April 11<sup>th</sup>, 2018, 9:00am – 13:00 am

Task 53 website: <http://task53.iea-shc.org/>

#### Participation fee:

Registration fee is determined based on different activities (including dinner, lunch, and Coffee break, et al). It is 100 € including VAT. Please transfer the amount to:

SWIFT: COBADEFF850  
IBAN: DE34 8504 0000 0800 0135 00  
Commerzbank Dresden  
payment reference: IEA Task 53 Meeting.

#### Side events / Workshops:

Workshop will be held on Thursday 12<sup>th</sup> April

## Day 1 - Agenda for Tuesday April 10<sup>th</sup>, 2018 (9:00pm-18:00pm)

### **1st block : Plenary**

09.00 - 09.30	Welcome and Organisational issues	Daniel Mugnier Mathias Safarik	TECSOL ILK
09.30 - 10.30	Welcome, Introduction, Presentation of new participants/attendees	Daniel Mugnier	TECSOL
10.30 – 10:45	Subtask A : Goals, structures, deliverables Components, Systems & Quality	Tim Selke	AIT
10:45 - 11:00	Subtask B : Goals, structures, deliverables Control, Simulation & Design	Robert Fedrizzi	EURAC
11.00 - 11:15	Subtask C : Goals, structures, deliverables Testing and demonstration projects	Björn Karlsson	MDH Uni
11.15 - 11:20	Subtask D : Goals, structures, deliverables Dissemination & market deployment	Daniel Mugnier	TECSOL
<b>11.20 - 11:40</b>	<b>Coffee Break</b>		

### **2nd Block : Latest developments & results session**

11.40 - 12.00	SolarSplit - PCM storage in VRF systems	Richard Schex	ZAE
12.00 - 12.30	SolarSplit – Ice storages in Mono-Split-Units	Carsten Heinrich	ILK
12.30 - 13.00	UMH latest developments	Pedro Quiles	UMH

**13.00 - 14:30 Lunch Break at Carolaschlösschen (<http://www.carolaschloesschen.de/>)**

1	4.30 - 14.45	Results on second-life battery for energy self-consumption in buildings	Antoine Boss	HEFR
	14:45 – 15:15	HVACC 4.0 concept latest results	Thomas Noll	EASY TNT
	15:15 – 15:30	Solar Cooling Design Guide Survey	Daniel Neyer	DNB
	15:30 – 16:00	Task 53 Activity C3 main results	Daniel Neyer	DNB

### **3<sup>rd</sup> Block : Working groups session 1 :**

16:00 - 17:30	Organization of Group discussions on subtask C  Activities C3 and C4 finalisation	Daniel Neyer	DNB
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**End of the working Day 1 - Dinner: Ballhaus Watzke starting with a walk through Dresden Old Town [http://www.watzke.de/watzke\\_am\\_goldenen\\_reiter.html](http://www.watzke.de/watzke_am_goldenen_reiter.html)**

**Day 2 - Agenda for Wednesday 11<sup>th</sup> of April 2018 (9:00am-13:00am)**

9:00 – 10:00 Technical Tour: Visiting ILK Dresden Test Facilities

**4<sup>th</sup> Block : Working groups summary :**

10:00 - 10.15	Subtask A : Report on working group items, planning of final steps; distribution of work.	Tim Selke	AIT
10:15 - 10.30	Subtask B : Report on working group items, planning of final steps; distribution of work.	Roberto Fedrizzi	EURAC
10.00 - 10.45	Subtask C : Report on working group items, planning of final steps; distribution of work.	Björn Karlsson Daniel Neyer	MDH DNB
10.00 - 10.45	Subtask D : Next Communication /Dissemination, activities	Daniel Mugnier	TECSOL

**10:45- 11:00 Coffee Break**

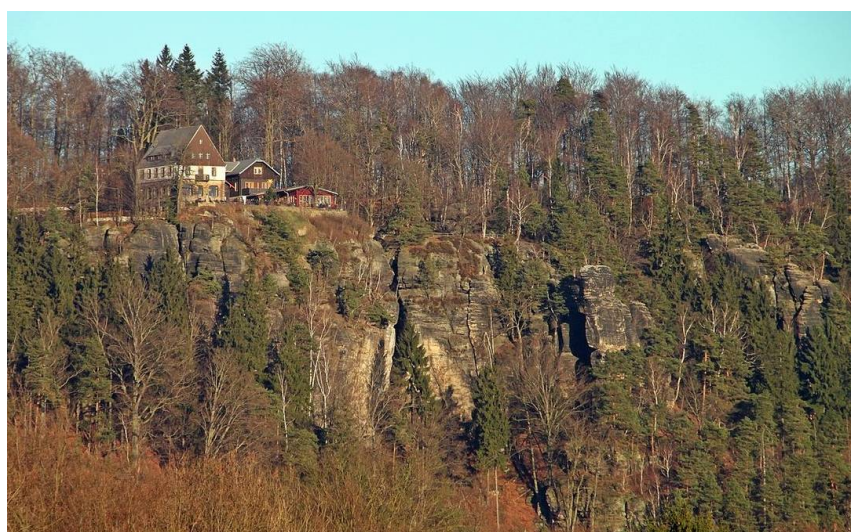
**5<sup>th</sup> Block : Plenary & overall**

11.00 - 11.30	Brainstorming on Task follow up	Daniel Mugnier	TECSOL
11.30 - 12.00	Task 53 Evaluation / Closing remarks	Daniel Mugnier	TECSOL

**12:00 Lunch (Ö Sarracin)**

13:00 End of the Meeting

- For people who stay in Dresden possible lunch in a mountain hut in the Saxony Switzerland including a walk - Alternatively we can offer a guided city tour



**Agenda for Thursday 12<sup>th</sup> of April 2018: 9:00 – 15:30 pm**

**Task53 Workshop on the New Generation of Solar Cooling and Heating Systems driven by Photovoltaic or Solar Thermal Energy**

Institute of Air Handling and Refrigeration, ILK Dresden - Bertolt-Brecht-Allee 20, 01309 Dresden

**Seminar Chairman: Dr. Daniel Mugnier, Operating Agent, IEA SHC Task 53**

**Programme:**

09:10	09:30	Solar cooling : worldwide overview and challenges	Daniel Mugnier TECSOL
09:30	09:50	The role of solar heating and cooling in the German political energy and environmental objectives	Annett Kühn Projektträger Jülich (PtJ)
09:50	10:10	Development demand and optimisation potential on solar cooling - a technology view from cooperations with industry and and optimisation studies	Alexander Morgenstern Fraunhofer ISE
10:10	10:30	Technical and economic analysis of different solar cooling systems - summary of Task 53 results	Daniel Neyer UIBK /daniel neyer brainworks
10:30	10:45	<b>Coffee Break</b>	
10:45	11:05	PCM integration in household refrigeration appliances for demand management in smart grid systems	Andreas Krönauer ZAE Bayern
11:05	11:25	Smart-grid control and the integration of cooling systems	Daniel Kühne kiwigrid
11:25	11:45	Intermediate Results of the German SolarSplit Project	R. Schex, M. Richter, C. Heinrich, ZAE Bayern/ ILK Dresden
11:45	12:05	Offgrid photovoltaic cooling systems with ice block generation	Jörg Waschull ILK Dresden
12:05	12:25	Results from feasibility studies of solar cooling systems in Mexico and the Arab Region	Uli Jakob, SOLEM Consulting / Green Chiller Association
12:25	13:10	<b>Lunch</b>	
13:10	13:30	Solar Cooling and architecture	Johannes Hegger, HHS PLANER + ARCHITEKTEN AG
13:30	13:50	Autarkic cooling via building skins - Results from Coolskin-project	Tim Selke, AIT
13:50	14:10	Power-to-Cold using vacuum ice slurry technology in the scope of German WindNODE project	Mathias Safarik, ILK Dresden
14:10	14:30	SunOyster Cooling System - Concentrated solar systems for cooling generation	Johannes Kneer, SunOyster
14:30	14:50	New developments and applications in solar cooling with Invensor adsorption chillers	Eleni Kontogeorgopoulou, Invensor

14:50	15:10	WEGRACAL C - New water/LiBr absorption chillers based on plate heat exchangers	Mathias Safarik ILK Dresden
		Farewell coffee	
		Technical tour ILK (Institute for Air-Handling and Refrigeration)	

## Annex 1: Meeting Participant list

No.	Name	Institute	Email
1	Daniel Mugnier	TECSOL	<a href="mailto:daniel.mugnier@tecsol.fr">daniel.mugnier@tecsol.fr</a>
2	Carsten Heinrich	ILK Dresden	<a href="mailto:carsten.heinrich@ilkdresden.de">carsten.heinrich@ilkdresden.de</a>
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17	Rebekka Koell	AEE INTEC	<a href="mailto:r.koell@aee.at">r.koell@aee.at</a>

## Annex 2: LOGISTICS MEETING AND WORKSHOP

### Suggested Hotels:

- Dorint-Hotel
- Ibis-Hotel Königstein (close to Dresden Main Station)
- Hotel Arthushof (10 Minutes-walk to meeting place)
- Hotel Smetana (10 Minutes-walk to meeting place)

all hotels are easily accessible by public transport

### Arrival to Dresden:

By Plane: From Dresden airport, catch train S2 to Dresden Main Station

for Dorint-Hotel change at Dresden-Mitte and catch tram no. 1 or 2 direction Prohlis, Kleinschachwitz, leave tram at station Deutsches Hygiene Museum, hotel is right in front of you

for IBIS-Hotel leave train at Dresden Main Station, exit to the north, direction Prager Straße, hotel is a five minute walk along the Prager Straße on left side

for Hotel Arthushof leave train at Dresden Main Station and catch tram no. 10 direction Striesen, leave tram at station Fetscherplatz

### Links:

German Railway: [www.bahn.de](http://www.bahn.de)

Dresden Public Transport: <https://www.dvb.de/en-gb/>

PT network map: [https://www.dvb.de/-/media/files/liniennetz/lnp%202018/dvb\\_lnp\\_2018\\_web.pdf](https://www.dvb.de/-/media/files/liniennetz/lnp%202018/dvb_lnp_2018_web.pdf)

### To Meeting

By public transport:

from Dorint hotel take tram no. 1 or 2 in direction Prohlis, Kleinschachwitz / leave tram at station Karcherallee and then walk left into Karcherallee and the Bertolt Brecht Allee.

from IBIS hotel take tram no. 10 in direction Striesen, leave tram at station Spenerstraße, walk right into Bertolt Brecht Allee.



