

PROGRAMME All Lectures in English

TUESDAY, 20.10.2015 – Conference room Brüssel

9:00	Registration
9:20	Opening
Markets, Challenges	
9:30	European heat pump markets and statistics report 2015 [1] Thomas Nowak et al. European Heat Pump Association AISBL
9:50	Hybrid heat pumps – are they living up to their potential? [2] Julian Jansen et al. Delta Energy & Environment (Delta-ee)
Research & Development	
10:15	IEA heat pumping technologies – overview of the programme and its activities [3] Dr. Roger Nordman et al. IEA Heat Pumping Technologies
10:30	Coffee Break
Challenges	
11:00	Load management with (hybrid) heat pumps in smart grids (IEA HPT Annex 42) [4] Peter P.M. Wagener BDH The Netherlands
11:30	Danish demonstration project with implementation of hybrid heat pump systems [5] Svend Pedersen Danish Technological Institute
12:00	Heat pump application in nZEBs – results from IEA HPT Annex 40 [6] Prof. Carsten Wemhoener HSR University of Applied Sciences Rapperswil
12:30	Lunch Break
Systems	
13:30	Industrial screw compressor heat pumps [7] M.Sc. Kenneth Hoffmann GEA Refrigeration
14:00	Absorption heat pump in the district heating plant [8] Hu Haidong et al. BROAD AIR CONDITIONING
14:30	Power to heat – smart energy management [9] Sven Staudt Glen Dimplex Deutschland GmbH
15:00	Large scale absorption heat pumps [10] Daniel Keller Clima Net AG
15:30	Coffee Break
Markets, Systems	
16:00	Fuel driven heat pumps – overview technology and markets (IEA HPT Annex 43) [11] Dr.-Ing. Peter Schossig Fraunhofer ISE
16:20	Gas heat pump development and performance evaluation (IEA HPT Annex 43) [12] Dipl.-Ing. Ivan Malenković Fraunhofer ISE
16:40	Comparing gas driven heat pumps to other technologies – a simulation study (IEA HPT Annex 43) [13] Prof. Dr. Marcello Aprile Politecnico di Milano
17:00	Applications of gas driven heat pumps and field test results (IEA HPT Annex 43) [14] Dipl.-Ing. Axel Albers Member of HPT Annex 43
Components	
17:20	KILFROST GEO – the new non-toxic, low viscosity and high performance fluid engineered for ground source heat pumps [15] Dr. Philip Gray Kilfrost Limited
17:40	Summary of the 1st day [16] Dr.-Ing. Rainer M. Jakobs Information Centre of Heat Pumps and Refrigeration IZW e.V.
18:00	Get-together

WEDNESDAY, 21.10.2015 – Conference room Brüssel

Components	
8:30	High efficient residential AHU with active heat recovery [17] Arne Müller Carel Deutschland GmbH
8:50	How to serve the heat pump technology at the very best [18] M.Sc. Matteo Munari ALFA LAVAL
9:10	Compressor technology outlook in the HP market. A tiered approach. [19] Enrico Fraccari Emerson Climate Technologies GmbH
9:30	Best fans for air source heat pumps possible [20] Joachim Dietle Ziehl-Abegg SE
9:50	Performance testing of a lab-scale high temperature heat pump with HFO-1336mzz-Z as working fluid [21] Dipl.-Ing. Dr. techn. Thomas Fleckl et al. AIT – Austrian Institute of Technology GmbH
10:10	Connected world new control solution [22] Björn Donners Carel Deutschland GmbH
10:30	Coffee Break
Research & Development	
11:00	Natural gas-driven CO ₂ heat pump [23] Michael Miranda boostHEAT
11:20	Experience with the operation of a CO ₂ driven 400 m geothermal thermosyphon [24] Dipl.-Ing. Johann-Chr. Ebeling et al. Institute of Thermodynamics (LUH)
Systems	
11:40	Experimental results of the behaviour of a hybrid ammonia/water high temperature heat pump [25] Dipl.-Ing. Taylan Tokan et al. Institute of Thermodynamics (LUH)
Testing Systems	
12:00	Calculation of the seasonal efficiency of solar thermal and heat pump combination by using the Bin method [26] M.Sc. Christian Koefinger et al. AIT – Austrian Institute of Technology GmbH
12:30	Lunch Break
13:30	Optimization of the seasonal efficiency of heat pumps by varying the bivalent temperature [27] M.Sc. Christian Koefinger et al. AIT – Austrian Institute of Technology GmbH
13:50	Evolution of heat pump certification [28] Erick Melquiond EUROVENT CERTITA CERTIFICATION
14:10	Heat pump key mark – a single certificate for the European heat pump market [29] Thomas Nowak European Heat Pump Association AISBL
14:30	Operation of a testing station for high temperature heat pumps [30] Dipl.-Ing. Magdalena Wolf et al. University of Natural Research and Life Science Vienna
15:00	Coffee Break
Research & Development	
15:30	Future heat pump – energetic and economic evaluation of heat sources for heat pumps [31] Dipl.-Ing. Franziska Bockelmann et al. TU Braunschweig – Institut für Gebäude- und Solartechnik
16:00	Summary of the 2nd day [32] Dr.-Ing. Rainer M. Jakobs Information Centre of Heat Pumps and Refrigeration IZW e.V.