

INTERNATIONAL CONFERENCE Ammonia Refrigeration Technology May 9-11, 2013, Ohrid, Republic of Macedonia



PROGRAMME

May 8, 2013 (Wednesday)

17:00 Registration 20:00 Welcome drink

May 9, 2013 (Thursday)

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Time	Authors	Paper		
10:00	Opening ceremony			
	Plenary lectures, Chairman: Andy Pearson			
10:30	Andy Pearson Star Refrigeration Ltd (UK)	Making ammonia refrigeration plants safer		
11:00	Rene van Gerwen Unilever Engineering Services (Netherlands)	Past, present and future of ammonia as refrigerant, from a leading industrial end-user perspective		
11:30	Coffee break			
	Heat pumps, Chairman: Jan Boone			
12:00	Alexander Pachai JCI - Sabroe (Denmark)	Heat pumps and their economics		
12:20	Stein Nordtvedt Institute for Energy Technology (Norway)	Heat recovery in fish meal industry by high temperature hybrid heat pumps		
12:40	Claus Madsen, B. Pijnenburg, R. Christensen Danish Technological Institute (Denmark)	Ammonia heat pump optimization through two condensers in series		
13:00	Lunch break			
	rigerants; Improvements of systems, Chairman: Predrag Hrnjak			
14:00	Lambert Kuijpers Technical University of Eindhoven (Netherlands)	Towards "environmentally sound" refrigeration as defined under the Montreal Protocol		
14:20	Jianyi Zhang Jimei University (China)	Status and analysis of ammonia refrigeration technology for cold stores in China		
14:40	Anil Gulanikar Dag-Tech Refrigeration (India)	Energy conservation in ammonia refrigeration system installed for meat processing unit in india		
15:00	Russian delegation – UNIDO project (Russia)	Ammonia refrigeration in Russia		
15:05	Coffee break			
	Panel discussion: standards in refrigeration Panelists: Andy Pearson (chairman), Star Refrigeration, UK; Gert Koster, GEA Refrigeration, Netherlands; Alexander Pachai, JCI – Sabroe, Denmark; René van Gerwen, Unilever, Netherlands; Eric Smith, IIAR, USA			
15:40	Introduction paper by: Gert Koster, GEA Refrigeration (Netherlands)	Use and misuse of standards in refrigeration		
16:00 to 17:50	Discussions			

May 10, 2013 (Friday)

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Authors	Paper	
Plenary lectures, Chairman: Alexander Pachai		
Predrag Hrnjak University of Illinois (USA)	DX ammonia evaporators – flow regimes, charge and heat transfer	
Niels Vestergaard Danfoss (Denmark)	Current and future trends in Ammonia refrigeration systems and control components	
Franc Kosi University of Belgrade – FME (Serbia)	Practical experiences with ammonia refrigerating systems in the Balkan region	
Coffee break		
Innovations and improvements in ammonia systems, Chairman: Niels Vestergaard		
Jan Boone Mayekawa (Japan)	Ammonia chillers in different industrial plants in Switzerland	
Sergei Khoudiachov S K Energy Consulting (Canada)	Operating ammonia refrigeration systems at peak efficiency	
Atte Aarnio Vahterus Oy (Finland)	New developments on ammonia separation systems	
Henry Bonar, John Nuszkowski BONAR (USA)	Gaining "Lost Work" for a Greener Planet	
Lunch break		
Absorption technology, Chairman: Arnd Hilligweg		
Arnd Hilligweg Nuremberg University of Applied Sciences (Germany)	Extended operational flexibility of trigeneration systems with ammonia water absorption chillers	
Rupert Graf, Jose Corrales Ciganda, Simon Funk, Annett Kühn, Felix Ziegler Technical University of Berlin (Germany)	First operation data of a gas absorption heat pump at a test bench	
Jose Corrales Ciganda, Rupert Graf, Annett Kühn, Felix Ziegler Technical University of Berlin (Germany)	Optimization of a gas absorption heat pump system	
Mihail-Dan Staicovici, Andrei-Marius Staicovici S.C. Varia Energia s.r.l. (Romania)	Hybrid coabsorbent heat pumping cycles	
	Plenary lectures, Chairman: Alexander Pachai Predrag Hrnjak University of Illinois (USA) Niels Vestergaard Danfoss (Denmark) Franc Kosi University of Belgrade – FME (Serbia) Coffee break Innovations and improvements in ammonia system Jan Boone Mayekawa (Japan) Sergei Khoudiachov S K Energy Consulting (Canada) Atte Aarnio Vahterus Oy (Finland) Henry Bonar, John Nuszkowski BONAR (USA) Lunch break Absorption technology, Chairman: Arnd Hilligweg Arnd Hilligweg Nuremberg University of Applied Sciences (Germany) Rupert Graf, Jose Corrales Ciganda, Simon Funk, Annett Kühn, Felix Ziegler Technical University of Berlin (Germany) Jose Corrales Ciganda, Rupert Graf, Annett Kühn, Felix Ziegler Technical University of Berlin (Germany) Mihail-Dan Staicovici, Andrei-Marius Staicovici	

15:00 Visit the museum on water, then Excursion in the complex "Sv. Naum" (18 km far from Hotel Metropol) 20:00 Gala dinner

May 11, 2013 (Saturday)

	Various topics, Chairman: Andrew Gigiel	
9:00	Krzysztof Banasiak, Armin Hafner, Anne Karin Hemmingsen SINTEF Energi AS (Poland, Norway)	Influence of ejector performance on the overall efficiency of ammonia ejector refrigeration cycle
9:20	C. Filipoiu, A. Dobrovicescu, V.Apostol, L. Drughean University Politehnica of Bucharest (Romania)	Exergetic analysis of refrigeration cycles operating with natural refrigerants
9:40	Gratiela Tarlea Technical University of Bucharest (Romania)	Romania – Ammonia traditional user
10:00	Closing ceremony - Resume	
10:30	Informal coffee	

Accompanying Persons Programme

Presence at all social events of the conference: welcome drink, conference gala dinner, sightseeing in the old town of Ohrid. May 9, 13:30: Excursion in the Monastery complex of Kalishta near Struga, along the lake.

May 10, 10:00: Visit at the Ohrid old bazaar with special jewels, filigree and Ohrid pearls.