



euramm^{on} Symposium for Natural Refrigerants

June 26-30, 2023

eurammon Symposium 2023 – Programme

eurammon Symposium for Natural Refrigerants

June 26, 2023		Keynote speeches	
09:00	09:10	Welcome & greeting	Michael Freiherr, Chairman eurammon e.V.
09:10	09:55	Reducing carbon emissions in transport, industrial and commercial refrigeration	Catarina Marques, London South Bank University
09:55	10:40	Evolution of CO ₂ refrigeration technology from 2000	Bernd Heinbokel, Carrier Refrigeration Germany
10:40	10:45	Break	
10:45	11:30	Cool Up: The rise of natural refrigerants in future-proof cooling solutions	Andreas Hermelink, Guidehouse
11:30	11:35	Concluding remarks	Michael Freiherr, Chairman eurammon e.V.
June 27, 2023		Policy and regulations update	
09:00	09:10	Introduction	Lambert Kuijpers, A/genT Consultancy
09:10	09:40	F-gas regulation	Cornelius Rhein, European Commission
09:40	09:45	Break	
09:45	10:15	The Universal PFAS Restriction proposal under REACH	Thijs de Kort, National Institute for Public Health and the Environment (NL)
10:15	10:45	Further uptake of flammable refrigerants, especially those of safety class A3, for various applications	Carsten Hoch, TÜV Süd Industrieservice GmbH
10:45	10:50	Break	
10:50	11:20	Update of Eco design regulation ENTR Lot 1 Professional Refrigeration - focus on condensing units and process chillers	Davide Polverini, European Commission
11:20	11:50	Panel discussion	Cornelius Rhein, Thijs de Kort, Carsten Hoch, Davide Polverini Moderator: Lambert Kuijpers
11:50	11:55	Concluding remarks	Lambert Kuijpers, A/genT Consultancy

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June 28, 2023

Applications with natural refrigerants

09:00	09:10	Introduction	Michael Rabenstein, Evapco Europe GmbH
09:10	09:40	Hydrocarbons - application within chillers and heat pumps	Marco Funes, SECON GmbH
09:40	09:45	Break	
09:45	10:15	Cooling of server rooms with CO ₂	Christoph Galli, HERMETIC-Pumpen GmbH
10:15	10:45	Ultra-low-temperature cooling with air as refrigerant	Thomas Frank, Refolution Industriekälte GmbH
10:45	10:50	Break	
10:50	11:20	Transport refrigeration with Propene and Carbon Dioxide	Jürgen Süß, ECOOLTEC Grosskopf GmbH
11:20	11:25	Concluding remarks	Michael Rabenstein, Evapco Europe GmbH

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June 29, 2023		Current developments with natural refrigerants	
09:00	09:10	Introduction	Monika Witt, TH. WITT Kältemaschinenfabrik GmbH
09:10	09:40	Current developments in the refrigeration industry – New innovative refrigeration oils for natural refrigerants	Wolfgang Bock, FUCHS LUBRICANTS GERMANY GmbH
09:40	09:45	Break	
09:45	10:15	Geothermal heat pumps with ammonia highly efficient for concrete core heating and concrete core cooling (annual performance factor 7...9)	Werner Eller, Friotherm Deutschland GmbH
10:15	10:45	Efficiency and availability with NH ₃ compressor packs	Jürgen Filster, Bitzer Kühlmaschinenbau GmbH
10:45	10:50	Break	
10:50	11:20	Extreme low charge systems with Ammonia R717	Christian Kempe, Alfa Laval Technologies AB
11:20	11:50	Air-source heat pumps go nat. ref.	Franz Sperl, Güntner GmbH & Co. KG
11:50	11:55	Concluding remarks	Monika Witt, TH. WITT Kältemaschinenfabrik GmbH

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June 30, 2023		Case studies with natural refrigerants	
09:00	09:10	Introduction	Thomas Spänich, GEA Refrigeration Germany GmbH
09:10	09:40	Benefit of holistic planning	Thomas Lergenmüller, GEA Refrigeration Germany GmbH
09:40	09:45	Break	
09:45	10:15	Individual heat pumps combined with industrial NH3-refrigeration systems	Michael Elsen, Kreuzträger Kältetechnik GmbH & Co. KG
10:15	10:45	Semiflooded evaporation for supermarket refrigeration	Esra Wirth, Kaufland Stiftung & Co. KG
10:45	10:50	Break	
10:50	11:20	Practical experience with a centralized 3 stage Ammonia DX-plant	Finn Dresen, Kältetechnik Dresen+Bremen GmbH
11:20	11:25	Concluding remarks	Thomas Spänich, GEA Refrigeration Germany GmbH

eurammon e. V. is always available as a sparring partner for questions on refrigeration with natural refrigerants.

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