

Time	Technical Sessions			
08:00	Registration (open 08:00 - 11:00) Location: The lobby at the Conference Centre			
Opening Session - in Room S-1 and in Room 101+102				
09:00	Welcome Welcome on behalf of the International Institute of Refrigeration, IIR, President of the General Conference, Henk van der Ree Welcome on behalf of the International Institute of Refrigeration, IIR, Director Didier Coulomb Welcome on behalf of Platinum Sponsor Danfoss Welcome and Practical Information on behalf of Organizing Committee, Svann Hansen			
09:05	Opening Speeches Ms. Connie Heedegaard, Danish Minister for the Climate and Energy Mr. Frank Jensen, Danish Environmental Protection Agency			
09:20	Plenary Lectures Mr. Jens K. Larsen, Johnson Controls Denmark - Sabroe Products: FUTURE OUTLOOK FOR AMMONIA CHILLERS IN REFRIGERATION AND AIR CONDITIONING IN EUROPE Mr. Bruce Badger, President of the International Institute of Ammonia Refrigeration, IIR: THE STATUS OF INDUSTRIAL REFRIGERATING SYSTEMS IN THE UNITED STATES			
09:40	Plenary Lectures Mr. Bruce Badger, President of the International Institute of Ammonia Refrigeration, IIR: THE STATUS OF INDUSTRIAL REFRIGERATING SYSTEMS IN THE UNITED STATES			
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10:30	Coffee Break			
Technical Sessions				
	Session M1	Session M2	Session M3	Session M4
11:00	Hydrocarbons 1 - in Room 104 DEVELOPMENT AND TEST OF BOTTLE COOLERS WITH NATURAL REFRIGERANTS (HYD 01 - M1-01) P. H. PEDERSEN, B. CHRISTENSEN	General Knowledge 1 - in Room 105 REDUCING POWER LOAD IN MULTI-COMPRESSOR REFRIGERATION SYSTEMS BY LIMITING PART-LOAD OPERATION (GEN 01 - M2-01) K. N. WIDELL, T. EIKEVIK	CO₂ Practical 1 - in Room S-1 CO ₂ CYCLES IN A HISTORIC PERSPECTIVE (CDP 01 - M3-01) A. C. PACHAI	CO₂ Scientific 1 - in Room 101+102 HEAT TRANSFER CHARACTERISTICS OF CO ₂ -OIL-MIXTURES (CDS 01 - M4-01) M. MÜLLER, R. EGGERS
11:25	ICE CREAM CABINETS USING A HYDROCARBON REFRIGERANT: FROM TECHNOLOGY CONCEPT TO GLOBAL ROLLOUT (HYD 02 - M1-02) RENÉ VAN GERWEN, ALAN GERRARD, FABIO ROBERTI	EXPERIMENTAL SINGLE PHASE AIR HEAT TRANSFER THROUGH AN ALUMINUM METAL FOAM (GEN 02 - M2-02) A. CAVALLINI, S. MANCINI, L. ROSSETTO, C. ZILIO	1D ANALYSIS OF CO ₂ SUB-COOLED/SUPERCRITICAL EJECTOR REFRIGERATION CYCLE: EXPERIMENTAL RESULTS (CDP 02 - M3-02) E. BOU LAUZ KSAYER, D. CLODIC	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE INSIDE SURFACE CHARACTERISTICS ON THE CARBON DIOXIDE FLOW BOILING HEAT TRANSFER COEFFICIENT IN A HORIZONTAL TUBE (CDS 02 - M4-02) K. HASHIMOTO, A. KIYOTANI, N. SASAKI
11:50	REFRIGERATION WITH A HYDROCARBON FOR A BREWERY (HYD 03 - M1-03) J. PAUL	AVERAGE MOBILE A/C CUSTOMER USAGE MODEL FOR DESIGN, SIMULATION AND TESTING PURPOSES (GEN 03 - M2-03) N. C. Strupp, M.E. Kling, N.C. Lemke, J. Köhler, C. Böttcher	LIQUID CHILLER USING CARBON DIOXIDE IN A TRANSCRITICAL PROCESS (CDP 03 - M3-03) H. REKSTAD, T. SKIPLE, G. SKAUGEN, P. NEKSÁ	A REVIEW ON CARBON DIOXIDE HEAT TRANSFER CHARACTERISTICS DURING FLOW BOILING (CDS 03 - M4-03) M. DUCOULOMBIER, S. COLASSON, P. HABERSCHILL
12:15	DEVELOPMENT OF A SMALL SCALE NATURAL GAS RELIQUEFACTION PLANT FOR GAS TANKERS (HYD 04 - M1-04) P. NEKSÁ, E. BRENDENG, B. NORBERG, P. BRØNDUM, M. DRESCHER	NUMERICAL SIMULATION OF TWO-PHASE FLOW IN MULTIPLE T-JUNCTIONS (GEN 04 - M2-04) N. ABLANQUE, C. OLIET, J. RIGOLA, C.D. PEREZ-SEGARRA	DESIGN AND EXPERIMENTAL ANALYSIS OF A CARBON DIOXIDE TRANSCRITICAL CHILLER FOR COMMERCIAL REFRIGERATION (CDP 04 - M3-04) M. BERNABEI, L. CECCHINATO, M. CHIARELLO, E. FORNASIERI	HEAT TRANSFER PERFORMANCE AND OIL BEHAVIOR FOR R744 WITH PAG OIL IN AIR COOLED HEAT EXCHANGER (CDS 04 - M4-04) S. YOSHIOKA, H.Y. KIM, K. KASAI
12:40	Lunch			
13:45	Hydrocarbons 2 - in Room 104 APPLICATION OF HYDROCARBON REFRIGERANTS WITH SCROLL COMPRESSORS IN LOW TEMPERATURE CASCADE SYSTEMS (HYD 05 - M1-05) B.M.ADAMSON	Sorption 1 - in Room 105 HEAT RECOVERY IN DISTILLATION COLUMNS USING COMPRESSION-RESORPTION CYCLES (SOR 01 - M2-05) R. TABOADA, C.A. INFANTE FERREIRA	CO₂ Practical 2 - in Room S-1 DEVELOPMENT OF A CO ₂ TRANS-CRITICAL RECIPROCATING COMPRESSOR (CDP 05 - M3-05) P. BONNEFOI, P. DUGAST, J. DE BERNARDI	At 14:00 in Room 101+102: Sponsor Seminar by Refrigerants, Naturally! "It Works" Moderation by Rt Hon John Gummer MP, former UK Environment Secretary PROGRAMME Welcome Address by Salvatore Gabola, The Coca-Cola Company Keynote Speech by Rt Hon John Gummer MP, former UK Environment Secretary Virtual Technology Revolution through Partnership Approach by Rajendra Shende, Head Ozone Action, United Nations Environment Programme DTIE - A representative of Greenpeace International Coffee break
14:10	EJECTOR-BASED REFRIGERATION CYCLE USING HCs AS THE WORKING FLUID (HYD 06 - M1-06) S. CHAN, H. SATO, A. SUWONO, I.M. ASTINA, P. S. DARMANTO	FLOODED EVAPORATORS FOR LIB-H ₂ O ABSORPTION CHILLERS: MODELLING AND VALIDATION (SOR 02 - M2-06) J. CASTRO, J. FARNÓS, A. OLIVA, E. GARCÍA-RIVERA	CHALLENGES ON THE DEVELOPMENT OF A CO ₂ COMPRESSOR FOCUSING ON STRUCTURAL STRENGTH AND RELIABILITY (CDP 06 - M3-06) R. BOSCO, G. WEBER	
14:35	ABSOLUTE DENSITY MEASUREMENTS OF HYDROCARBON REFRIGERANTS BY THE DUAL-SINKER MAGNETIC LEVITATION DENSIMETER (HYD 07 - M1-07) Y. KAYUKAWA, Y. KANO, K. FUJII	CO ₂ BASED COMPRESSION ADSORPTION HYBRID: A NOVEL HIGH PERFORMANCE REFRIGERATION AND AIR CONDITIONING DEVICE (SOR 03 - M2-07) S. KOYAMA, B. B. SAHA, A. CHAKRABORTY, K. KUWAHARA, K. SRINIVASAN	CONTROLLER DESIGN FOR AN AUTOMOTIVE R744-BASED AIR CONDITIONING SYSTEM (CDP 07 - M3-07) H. TUMMESCHEIT, S. KARIM	
15:00	COMPARATIVE STUDY OF THE THERMODYNAMIC PROPERTIES OF FOUR OILS MIXED WITH PROPYLENE (R1270) (HYD 08 - M1-08) S. FEJA, C. PUHL	ABSORPTION CYCLE FOR COMBINED HEAT RECOVERY OF EXHAUST GASES AND JACKET COOLING OF DIESEL ENGINES (SOR 04 - M2-08) S. BOUZZAOUI, C.A. INFANTE FERREIRA, J. LANGRECK, J. GERRITSEN	USE OF CO ₂ IN FREE COOLING SYSTEMS (CDP 08 - M3-08) P. RASMUSSEN	
15:25	Coffee Break			
15:45	Microchannels - in Room 104 PREDICTION OF THE CRITICAL HEAT FLUX IN MICROCHANNELS DURING FLOW BOILING OF CARBON DIOXIDE (MIC 01 - M1-09) R. REVELLIN, M. DUCOULOMBIER, J. BOUNOUR, P. HABERSCHILL	Sorption 2 - in Room 105 DYNAMIC SIMULATION OF AN ADSORPTION SYSTEM FOR SOLAR AIR-CONDITIONING (SOR 05 - M2-09) E. POLONARA (S. YOSHIOKA, H. Y. KIM, K. KASAI) POLONARA (S. YOSHIOKA, H. Y. KIM, K. KASAI)	CO₂ Scientific 2 - in Room S-1 EXPERIMENTAL ANALYSIS OF CARBON DIOXIDE COILED EVAPORATORS (CDS 05 - M4-09) A. CAVALLINI, M. CHIARELLO, E. FORNASIERI, C. ZILIO	Hydrocarbons - for Cleaner Greener Coolers and Freezers by Alan Gerrard, Global Project Leader, Unilever and Eskild Andersen, Environmental Manager, Carlsberg HFC-Free Technologies For Cold Drink Equipment by Antoine Azar, eKOfreshment Program Manager, The Coca-Cola Company and Michel Saba, Director of Equipment Development, PepsiCo Natural Refrigerants in a Retail Environment - the IKEA & McDonald's Challenge by Else Krueck, Director Environment and CSR, McDonald's Europe and Tom Pedersen, Construction Manager, IKEA Group Panel Discussion by Representatives of each corporate member of Refrigerants, Naturally! Conclusion
16:10	DISTRIBUTION OF EVAPORATING CO ₂ IN PARALLEL MICROCHANNELS (MIC 02 - M1-10) W. BRIX, B. ELMEGAARD	COABSORBENT TECHNOLOGY FOR HEAT PUMPING AND POWER PRODUCTION (SOR 06 - M2-10) MIHAIL-DAN N. STAIKOVICI	ADVANCED MULTIPHASE HEAT EXCHANGER MODEL FOR USE IN SIMULATION AND OPTIMIZATION OF TRANSCRITICAL CO ₂ HEAT PUMPING CYCLES (CDS 06 - M3-10) T. ANDRESEN, G. SKAUGEN	
16:35	HEAT TRANSFER CHARACTERISTICS OF SUPERCRITICAL CARBON DIOXIDE COOLED INSIDE SMALL SIZE GROOVED TUBE (MIC 03 - M1-11) C. DANG, K. JING, E. HIHARA, F. NISHIWAKI	WATER VAPOR ABSORPTION IN CONICAL SHEETS OF AQUEOUS LITHIUM BROMIDE SOLUTION (SOR 07 - M2-11) E. PALACIOS, M. IZQUIERDO, R. LIZARTE, J. D. MARCOS	FLOW PATTERNS AND HEAT TRANSFER CHARACTERISTICS OF FLOW BOILING OF CO ₂ AND OIL MIXTURES IN HORIZONTAL SMOOTH AND MICRO-FIN TUBES (CDS 07 - M3-11) L. GAO, T. ONO, T. HONDA	
17:00	EMPIRICAL HEAT TRANSFER AND PRESSURE DROP CORRELATIONS FOR A NEW MICROCHANNEL HEAT EXCHANGER BETWEEN CARBON DIOXIDE AND WATER (MIC 04 - M1-12) YASUYOSHI KATO, TRI LAM NGO, KONSTANTIN NIKITIN, MOTOAKI UTAMURA	TWO MATHEMATICAL MODELS OF THE FALLING FILM ABSORPTION IN VERTICAL TUBES (SOR 08 - M2-12) E. GARCIA-RIVERA, J. CASTRO, J. FARNOS, A. OLIVA	STUDY ON EVAPORATOR OF CARBON-DIOXIDE WATER SOURCE HEAT PUMP (CDS 08 - M3-12) M. X. LI, B. LI, T. Z. YE, Y. T. MA	
17:30	End of Sessions			