

SATURDAY, AUGUST 24, 2019										
13:00 - 16:00	Retirement Management Committee Meeting (MC)									
16:15 - 19:00	Retiring Science and Technology Council (STC)									
SUNDAY, AUGUST 25, 2019										
09:30 - 12:30	General Conference (GC)									
13:30 - 15:45	Incoming Science and Technology Council (STC)									
16:00 - 19:00	Executive Committee (EC)									
18:30 - 20:00	WELCOME RECEPTION - Room 517cd									
MONDAY, AUGUST 26, 2019										
09:00 - 09:30	OPENING CEREMONY - Room 517a									
09:30 - 10:00	PLENARY: GAÉTAN LANTAGNE AND CHRISTIAN BÉLANGER, HYDRO QUEBEC - Room 517a									
10:00 - 10:30	Coffee Break in Exhibit Hall									
Room #	518ab	518c	519a	519b	524a	524b	524c	520ad	520be	520cf
10:30 - 12:10	B1:TS-103 Thermodynamic and Transport Properties of Refrigerants (1)	D1:TS-104 Commercial Refrigeration and Supermarket Display Cabinets (1)	A2:TS-100 Heat Pump-Based Energy Recovery Systems (1)	A2:TS-100 Gas Liquefaction (1)	E1:TS-105 HVAC Optimal Control	B2:TS-106 Sorption Systems (Absorption, Adsorption) KEYNOTE	B1:TS-108 Aqua-Ammonia, Ammonia and CO2 in Refrigeration and Heat Pump Applications	WS-1.A Heat Pump Systems with Low-GWP Refrigerants (A)	B1:TS-102 Efficient Heat and Mass Transfer Processes (1)	B1:TS-101 Next Generation of Low-GWP Refrigerants (1)
12:10 - 13:40	Lunch Break - Exhibits									
13:40 - 17:00	Workshop: Heat Pump Integration in High-Performance Buildings at Concordia University. Pre-registration required.									
13:40 - 15:00	B1:TS-109 Flow Pattern & Visualization (1)	S:TS-115 Sustainable & High Performance Buildings - Miscellaneous	-	-	C2:TS-113 Food Engineering: Heat and Mass Transfer, Refrigeration Process, Design and Modelling (1)	B2:TS-111 Residential and Commercial Heat Pump Systems (1)	B2:TS-112 Refrigerating Equipment Dynamics and Controls (1)	WS-1.B Heat Pump Systems with Low-GWP Refrigerants (B)	B2:TS-110 Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (1)	B2:TS-111 Compressor Design, Analysis and Performance (1)
15:00 - 15:30	Coffee Break in Exhibit Hall									
15:30 - 17:10	B1:TS-119 Absorption and Adsorption Thermodynamic Processes (1)	D1:TS-121 Cold-Chain Conformity & Performance Certification KEYNOTE	-	A1:TS-110 Cryogenic Fluids	E1:TS-123 Air Conditioning - Miscellaneous (1)	B2:TS-121 Ground-Source Heat Pump Systems (1)	B1:TS-120 Performance of Vapor-Compression, Recompression and Absorption Refrigeration & Heat Pump Cycles (1)	B2:TS-122 Absorption, Adsorption and Ejector Systems (1)	B1:TS-118 Efficient Heat and Mass Transfer Processes (2)	B1:TS-117 Next Generation of Low-GWP Refrigerants (2) KEYNOTE
17:30 - 19:30	Working Group Meetings - By invitation only									
		Sub-Commission D1 on Refrigerated Display Cabinets	Refrigeration Safety	Whole-body cryotherapy or cryostimulation	Cold Chain in Hot Countries	Demand-oriented non-uniform indoor environment & Dehumidification in air conditioning	Cold Chain for Pharmaceutical Products			
TUESDAY, AUGUST 27, 2019										
Room #	518ab	518c	519a	519b	524a	524b	524c	520ad	520be	520cf
08:30 - 10:10	D2:TS-205 Refrigerated Transport Miscellaneous (1)	C2:TS-208 Chilling and Freezing Preservation Applications (1)	D1:TS-204 Cold Energy Storage	A1:TS-200 Cryogenic Systems and Applications	B2:TS-207 Dessicant Heat Pumps KEYNOTE	E1:TS-206 Air Conditioning Equipment and Energy Efficiency Systems (1)	B1:TS-202 Performance of Vapor-Compression, Recompression and Absorption Refrigeration & Heat Pump Cycles (2)	WS-2.A Heat Pump Water Heaters: A challenging future(A)	B2:TS-203 Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (2)	B1:TS-201 Elasto- and magnetocaloric Refrigeration (1) KEYNOTE
10:10 - 10:40	Coffee Break in Exhibit Hall									
10:40 - 12:00	B1:TS-212 Absorption and Adsorption Thermodynamic Processes (2)	D1:TS-215 Commercial Refrigeration and Supermarket Display Cabinets (2)	S:TS-217 Components for Sustainable Buildings	A1:TS-211 Small-Scale Refrigeration (Cryo-coolers) and Applications (1)	B2:TS-213 Energy Efficiency of Refrigerating Systems - TEWI - LCCP (1)	B2:TS-214 Industrial Heat Pumps (1)	B2:TS-214 Refrigerating Equipment Dynamics and Controls (2)	WS-2.B Heat Pump Water Heaters: A challenging future (B)	B2:TS-209 Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (3)	B1:TS-211 Efficient Heat and Mass Transfer Processes (3)
12:00 - 13:30	Lunch Break - Exhibits - Poster Session Topics: Cryophysics & Cryoengineering / Liquefaction & Separation of Gases / Refrigerating Equipment / Food Science & Engineering / Refrigerated Storage / Refrigerated Transport									
13:30 - 15:10	B1:TS-219 Thermodynamic and Transport Properties of Refrigerants (2)	B2:TS-224 Refrigerated Land, Air and Marine Transport (1)	D1:TS-226 Refrigeration Equipment	A1:TS-211 Carbon Footprint and Sustainability of Chilled Food KEYNOTE	E1:TS-224 Air Conditioning - Miscellaneous (2)	B2:TS-224 Ground-Source Heat Pump Systems (2)	B1:TS-210 Heat Transfer and Thermal Insulation	-	B2:TS-221 Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (4)	B2:TS-220 Two-Phase Ejectors KEYNOTE
15:10 - 15:40	Coffee Break in Exhibit Hall									
15:40 - 17:00	B1:TS-227 Flow Pattern & Visualization (2)	-	D1:TS-231 Refrigerated Storage - Miscellaneous	-	B2:TS-229 Energy Efficiency of Refrigerating Systems - TEWI - LCCP (2)	B2:TS-230 Food Engineering: Heat and Mass Transfer, Refrigeration Process, Design and Modelling (2)	B2:TS-228 Heat Pumps, Energy Recovery - Miscellaneous (1)	WS-3 Data and Models for Food Refrigeration and the Cold Chain - FRISBEE International	B1:TS-233 Efficient Heat and Mass Transfer Processes (4)	B2:TS-228 Compressor Design, Analysis and Performance (2)
17:30 - 19:30	Commission Meetings - By invitation only									
		A1, A2, C1 joint meeting			D1, D2, C2 joint meeting	E1, E2 joint meeting	B1, B2 - IEA Annex 54 joint meeting			
WEDNESDAY, AUGUST 28, 2019										
Room #	518ab	518c	519a	519b	524a	524b	524c	520ad	520be	520cf
08:30 - 10:10	B1:TS-301 Advanced Cooling Technologies (1)	-	B2:TS-300 Refrigerant Charge Reduction KEYNOTE	C2:TS-303 Food Quality Monitoring and Safety (1)	-	E1:TS-304 Air Conditioning Equipment and Energy Efficiency Systems (2)	B2:TS-300 System Energy Efficiency Improvements	WS-4.A Successful Applications of Industrial Heat Pumps (A)	B2:TS-302 Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (5)	B1:TS-300 Special Applications of Refrigeration and Air-Conditioning Systems KEYNOTE
10:10 - 10:40	Coffee Break in Exhibit Hall									
10:40 - 12:00	-	C2:TS-312 Chilling and Freezing Preservation Applications (2)	D1:TS-313 Commercial Refrigeration and Supermarket Display Cabinets (3)	-	B2:TS-310 Energy Efficiency of Refrigerating Systems - TEWI - LCCP (3)	B2:TS-311 Heat Pumps, Energy Recovery - Miscellaneous (2)	B1:TS-309 Performance of Vapor-Compression, Recompression and Absorption Refrigeration & Heat Pump Cycles (3)	WS-4.B Successful Applications of Industrial Heat Pumps (B)	B1:TS-308 Efficient Heat and Mass Transfer Processes (5)	B2:TS-311 Refrigerating Equipment - Miscellaneous (1)

12:00 - 13:30	Lunch Break - Exhibits - Poster Session Topics: Thermodynamics & Transfer Processes									
13:30 - 15:10	B1:TS-317	D2:TS-320	E1:TS-325	C2:TS-324	E1:TS-322	E1:TS-321	B2:TS-319	B1:TS-318	B1:TS-315	B1:TS-316
	Advanced Cooling Technologies (2)	Refrigerated Land, Air and Marine Transport (2)	Heat Pump-Based Energy Recovery Systems (2)	Food Thermal Properties & Losses KEYNOTE	Air Conditioning - Miscellaneous (3)	Using Renewable Energy in Air Conditioning KEYNOTE	Refrigerating Equipment Dynamics and Controls (3)	Properties of Lubricants & Refrigerant-Lubricant Blends	Efficient Heat and Mass Transfer Processes (6)	Next Generation of Low GWP Refrigerants (3)
15:10 - 15:40	Coffee Break in Exhibit Hall									
15:40 - 17:00	B1:TS-325	-	E1:TS-331	B2:TS-328	B2:TS-325	C2:TS-328	B2:TS-327	WS-5	B2:TS-330	B2:TS-326
	Flow Pattern & Visualization (3)	-	HVAC&R Systems and Components	Sorption Refrigeration Systems (Absorption, Adsorption)	Industrial Heat Pumps (2)	Food Engineering: Heat and Mass Transfer, Refrigeration Process, Design and Modelling (3)	Absorption, Adsorption and Ejector Systems (2)	Smart Energy Systems: an international opportunity	Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (6)	Compressor Design, Analysis and Performance (3)
17:00 - 19:30	Student Networking Event - Room 524a									

THURSDAY, AUGUST 29, 2019										
Room #	518ab	518c	519a	519b	524a	524b	524c	520ad	520be	520cf
08:30 - 10:10	B1:TS-401	-	B2:TS-406	C1:TS-404	B2:TS-403	E1:TS-405	B1:TS-402	WS-6	B2:TS-403	B1:TS-400
	Thermodynamic and Transport Properties of Refrigerants (3)	-	Solar Cooling & Solar-Assisted Heat Pump Systems	Cryopreservation of Cells and Tissues KEYNOTE	Heat Pumps, Energy Recovery - Miscellaneous (3)	Air Conditioning Equipment and Energy Efficiency Systems (3)	Thermodynamics & Transfer Processes - Miscellaneous (1)	Acoustics of Heat Pumps	Refrigeration Equipment - Miscellaneous (2)	Next Generation of Low GWP Refrigerants (4) KEYNOTE
10:10 - 10:40	Coffee Break in Exhibit Hall									
10:40 - 12:00	B1:TS-409	-	D1:TS-414	C2:TS-412	B2:TS-411	B2:TS-410	-	WS-7	B1:TS-408	B2:TS-410
	Thermodynamic and Transport Properties of Refrigerants (4)	-	Commercial Refrigeration and Supermarket Display Cabinets (4)	Food Quality Monitoring and Safety (2)	Energy Efficiency of Refrigerating Systems – TEWI – LCCP (4)	Industrial Heat Pumps (3)	-	Real Alternatives 4 LIFE - Low GWP Alternative Refrigerants for Cooling - Skills Needs and Solutions	Efficient Heat and Mass Transfer Processes (7)	Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (7)
12:00 - 13:30	Lunch Break - Exhibits - Poster Session Topics: Air Conditioning / Heat Pumps, Energy Recovery / Sustainable And High Performance Buildings									
13:30 - 15:10	B1:TS-419	B2:TS-420	-	A1:TS-415	C2:TS-423	B2:TS-420	B1:TS-416	WS-8	B1:TS-417	B1:TS-418
	Flow Pattern & Visualization (4)	Absorption, Adsorption and Ejector Systems (3)	-	Small-Scale Refrigeration (Cryocoolers) and Applications (2)	Heat Pumps with Refrigerant Mixtures KEYNOTE	Residential and Commercial Heat Pump Systems (2)	Phase-change materials KEYNOTE	Water as refrigerant for energy efficiency: debate and initiatives	Efficient Heat and Mass Transfer Processes (8)	Next Generation of Low GWP Refrigerants (5)
15:10 - 15:40	Coffee Break in Exhibit Hall									
15:40 - 17:00	B2:TS-423	C2:TS-426	D2:TS-427	-	-	E2:TS-424	-	B2:TS-425	B1:TS-429	B2:TS-424
	Indirect Cooling Systems: Liquid and Phase-Change Secondary Refrigerants	Chilling and Freezing Preservation Applications (3)	Refrigerated Transport - Miscellaneous (2)	-	-	Sorption Heat Pump Systems (Absorption, Adsorption)	-	Refrigeration Equipment - Miscellaneous (3)	Efficient Heat and Mass Transfer Processes (9)	Compressor Design, Analysis and Performance (4)
18:30 - 22:30	Gala Dinner & Awards - Room 710									

FRIDAY, AUGUST 30, 2019										
Room #	518ab	518c	519a	519b	524a	524b	524c	520ad	520be	520cf
08:30 - 10:10	B1:TS-503	D2:TS-506	-	A2:TS-500	C2:TS-508	B2:TS-507	B1:TS-504	B1:TS-505	B1:TS-501	B1:TS-502
	Lubricants for Future Refrigerants & Measurement Techniques	Equipment for Refrigerated Transport	-	Gas Liquefaction (2)	Efficient Heat Pump and Refrigeration Systems	Industrial Heat Pumps (4) KEYNOTE	Refrigerant Charge Reduction & Leaks Control	Thermodynamics & Transfer Processes - Miscellaneous (2)	Elasto- and magnetocaloric Refrigeration (2) KEYNOTE	Next Generation of Low GWP Refrigerants (6)
10:10 - 10:40	Coffee Break in Exhibit Hall									
10:40 - 12:00	B1:TS-510	C1:TS-512	S:TS-515	A:TS-511	C2:TS-513	B2:TS-514	B1:TS-509	WS-9	B2:TS-516	B2:TS-511
	Thermodynamic and Transport Properties of Refrigerants (5)	Cryomedicine – Cryosurgery and Cryotherapy/Cryostimulation	Data Centers and Low Energy Buildings	Small-Scale Refrigeration (Cryocoolers) and Applications (3)	Food Engineering: Heat and Mass Transfer, Refrigeration Process, Design and Modelling (4)	Industrial Heat Pumps (5)	Refrigerant Pressure Drop	Cryogenic Energy Storage for Renewable Refrigeration and Power Supply	Evaporators, Condensers and other Heat Exchangers: Design, Analysis and Performance (8)	Energy Efficiency of Refrigerating Systems – TEWI – LCCP (5)
12:00 - 12:30	Closing Ceremony - Room 518ab									
13:30 - 15:00	Incoming Management Committee Meeting									