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Invitation to Workshop on Energy Efficient Refrigeration and Air Conditioning Techniques

1. Objective of Workshop

With the increase of output of refrigeration and air conditioning products, the energy consumption and global warming impact by such products increase rapidly. The existing techniques on improving the energy efficiency should be widely disseminated and new techniques should be developed for the sustainable development of refrigeration and air conditioning industries. This workshop is intended to present advanced techniques on improving energy efficiency of refrigeration and air conditioning products. Famous international and domestic researchers in this field will deliver presentations and introduce tools for design of energy efficient products.

Engineers and researchers from industries or academic institutions in the field of refrigeration and conditioning are welcome to this workshop.

2. Location and date

The workshop will be held at School of Mechanical Engineering, Shanghai Jiao Tong University, Dongchuan Road 800, Shanghai 200240, China.

The period is October 25 and 26, 2007 (Thursday and Friday).

3. Agenda

Time	Description	Presenter
October 25 (1st day)		
8:00-9:00	Registration	
8:30-9:00	Welcome and Introduction	Prof. Ruzhu Wang
9:00-10:00	Overview: Air-conditioning Technology Worldwide	Prof. R. Radermacher
10:00-11:00	Overview: Air-conditioning Technology in China	Prof. Guoliang Ding
11:00-12:00	Overview: MAC vs. STAC Industrials	Dr. LinJie Huang
12:00-13:00	LUNCH	
13:00-14:00	Latest Heat Exchanger Developments (Tube Fin)	Prof. Guoliang Ding
14:00-16:00	Micro-channel Heat Exchangers: Challenges and Opportunities	Dr. LinJie Huang
16:00-17:00	Compressor Performance Challenges	Dr. Jun Yang
17:30-19:00	DINNER	
October 26 (2nd day)		
8:30-9:30	Cycle Options for Energy Efficiency	Prof. R. Radermacher
9:30-10:30	Control Challenges and Opportunities	Prof. Jingyi Wu
10:30-12:00	Simulation Approaches	
	Heat Exchangers	Prof. R. Radermacher
	Compressors	& Prof. Guoliang Ding
	Systems	
12:20-13:30	LUNCH	
13:30-15:00	Visit of Institute of Refrigeration and Cryogenics, Shanghai Jiao Tong University	Prof. Ruzhu Wang

4. Instructor Information:

Dr. Radermacher is professor of Mechanical Engineering, University of Maryland and Director of the Center for Environmental Energy Engineering (CEEE). Dr. Radermacher was the president of Commission B2 of the International Institute of Refrigeration (IIR) and the chief editor of the journal of HVAC&R Research He has

more than 30 years of research experience in energy conversion systems in general and air-conditioning and refrigeration systems in particular. Over the last decade CEEE has been developing software specifically geared towards the optimization of thermal systems for minimum cost and other parameters of interest.

Dr. Guoliang Ding is professor and director of Department of Power and Energy Engineering, Shanghai Jiao Tong University. He has 20 years of research experience on simulation and optimization of vapor-compression refrigeration and air conditioning systems. The simulation and optimization software for refrigeration systems and heat exchangers developed by his group have been used in international and domestic industries.

Dr. Huang is Delphi senior research scientist in US with research and design experiences in automotive/residential AC and micro-channel HX for over 25 years. He started his automotive research and design career with General Motors as a research Scientist and led the Thermal division thermal system and HX research and development activities. When Delphi spin-off from General Motors in 1999, he became the Senior Research Scientist in Delphi and continue to lead the advanced research and development of automotive/residential HVAC and MCHX. He holds over 25 international patents and trade secrets on design of HVAC/MCHX and is the life-time member of Delphi Innovation Hall of Fame.

Dr. Jingyi Wu is a professor and vice dean of School of Mechanical & Power Engineering in Shanghai Jiao Tong University. She has done a lot of researches on automatic control and optimization of different kinds of refrigeration and air-conditioning systems, including vapour-compression refrigeration system, adsorption refrigeration system, heat pump, and high efficient energy utilization system, etc.

Dr. Yang is the manager of Compressor Development Division, Shanghai Hitachi Electric Appliance Ltd. He has led the development of a lot of compressors for air conditioners, and the products have been widely used in China or exported to the international markets. He won the First Grade Award of Science and Technology, Shanghai because of the development of R410A compressor.

5. Registration

The tuition is 2000 RMB per participant before October 1, 2007; 2200 RMB thereafter.

The discount tuition only for participant from universities is 1500 RMB per participant before October 1, 2007; 2000 RMB thereafter.

Please fill in and fax or email to Prof. Guoliang Ding or Ms. Xia Ke at 021-34206378, 021-34206814, glding@sjtu.edu.cn, kexia@sjtu.edu.cn as soon as possible, but not later than October 1, 2007. After October 1, the registration fee is increased.

Name of Participant(s):

Affiliation:

Contact information:

Complete Address:

Email:

Phone:

6. Hotel and Transportation

We can reserve hotel inside the campus for you, and help you to reserve transportation tickets if you ask us in advance.