



2nd Announcement and Call for Papers

5th IIR Conference on Thermophysical Properties and Transfer Processes of Refrigerants (TPTPR2017)



SEOUL NATIONAL UNIVERSITY,
SEOUL, KOREA

APRIL 23 - 26, 2017

<http://www.tptpr2017.org>



INTERNATIONAL INSTITUTE OF REFRIGERATION
INSTITUT INTERNATIONALE DU FROID

About the Conference

The International Institute of Refrigeration (IIR) has established a series of Commission B1 (Thermodynamics and Transfer Processes) Conferences, held every 4 years, to discuss thermophysical properties and transfer processes of refrigerants. The objectives of the IIR's Commission B1 are to provide academic and industrial information/data and to propose solutions to current issues related to thermodynamics and transfer processes. Commission B1 has been extremely active in the areas of working groups (WG), IIR conferences, IIR-co-sponsored conferences and commission business meetings. This conference follows the 2001 Conference in Paderborn, Germany, the 2005 Conference in Vicenza, Italy, the 2009 Conference in Boulder, USA, and the 2013 Conference in Delft, the Netherlands.

In accordance with the global efforts to reduce carbon dioxide emissions and to protect the environment, the refrigeration society should cooperate and participate in coping with the worldwide energy and environmental issues. These core issues lead to set up the main theme for the 5th TPTPR Conference in 2017 as "Creative Refrigerants for Low Carbon and Green Growth". As refrigeration and air-conditioning products contribute to climate change, the IIR should undertake every effort to facilitate the development of eco-friendly refrigerants and to assist in sharing most current knowledge on the next generation refrigerants among international experts.

The conference covers the areas of diverse research on thermophysical properties and transfer processes of refrigerants. Academic and industrial experts are encouraged to submit papers in the areas of cycle analysis, theoretical and experimental techniques, thermophysical property data analysis, heat and mass transfer enhancements, and heat pump systems with new refrigerants.

Conference Chairpersons

KANG, Yong Tae, Korea University
KIM, Min Soo, Seoul National University

Secretary General

CHUNG, Jae Dong, Sejong University

Program Committee

CHANG, Young Soo, Kookmin University
CHOI, Jun Young, Korea Testing Laboratory
HONG, Hiki, Kyung Hee University
JEONG, Ji Hwan, Pusan National University
JEONG, Jin Woong, Korea Food Research Institute
JEONG, Sang Kwon, KAIST
JEONG, Siyoung, Sogang University
KIM, Yongchan, Korea University
LEE, Dae Young, Korea Institute of Science and Technology
OH, Jong Taek, Chonnam National University
PARK, Seong Je, Korea Institute of Machinery and Materials
PARK, Youn Cheol, Jeju National University

Local Organizing Committee

AHN, Joon, Kookmin University
CHOI, Jong Min, Hanbat National University
CHOI, Wonjoon, Korea University
KIM, Minsung, Chung-Ang University
KIM, Taesung, Sungkyunkwan University
LEE, Bong Jae, KAIST
LEE, Seong Hyuk, Chung-Ang University
LEE, Wonyoung, Sungkyunkwan University
NAM, Youngsuk, Kyung Hee University
PARK, Chang Yong, Seoul Tech
SHIM, Joon Hyung, Korea University
SONG, Chan Ho, KIMM
SONG, Han Ho, Seoul National University

International Scientific Committee

BANSAL, Pradeep, USA
BONJOUR, Jocelyn, France

CHO, Keumnam, Sungkyunkwan University, Korea
 COULOMB, Didier, IIR, France
 DEL COL, Davide, Italy
 DOMANSKI, Piotr, USA
 HE, Yaling, China
 HWANG, Yun Ho, USA
 INFANTE FERREIRA, Carlos, the Netherlands
 KANG, Byung Ha, Korea
 KOYAMA, Shigeru, Japan
 SAITO, Kiyoshi, Japan
 WANG, Ruzhu, China

Conference Proceedings

The Conference Proceedings containing the full papers presented will be distributed in USB as part of the IIR "Refrigeration Science and Technology" proceedings series distributed worldwide by the IIR. The USB will include papers accepted for presentation, provided at least one author has pre-registered by the deadline. Authors will have the option to submit their papers, or updated versions, to the International Journal of Refrigeration for possible publication after undergoing a regular Journal review process.

Language

The official language used in the conference for all presentations and discussions will be English. All papers must be written and presented in English.

Conference Venue

Hoam Convention Center, Seoul National University (SNU)
 1 Gwanak-ro, Gwanak-gu, Seoul 08826, KOREA

This is the best support entity for education and research activities, it is well equipped with medium and large-sized meeting rooms for diverse conferences and events, restaurant for supply of safe and healthy food, and comfortable lodging facilities. Moreover, it runs a gallery for displaying works of notable artists, and holds various concerts enjoyable for everyone, thereby evolving into a multiple cultural space where all visitors can build fond memories of their own. It has one big room for opening ceremony and keynote speech, and several small conference rooms. Lots of local and international conferences are held at Hoam Convention Center all year round.

Promotion of the Event

- Free technical tour
- Free lunch on the second day (Monday) and the third day (Tuesday)

- Free conference Banquet and performance
- Free conference USB and souvenir
- Beer party (Chimek party) for students

Registration Fees

	Before Feb. 24, 2017	On-site registration
Regular participant	720,000 KRW	800,000 KRW
IIR member	540,000 KRW	600,000 KRW
Student	360,000 KRW	400,000 KRW
Accompanying person	90,000 KRW	100,000 KRW

Accommodation

Hoam Convention Center (<http://www.hoam.ac.kr/eng>), 0km, 105k~220k KRW
 Novotel Ambassdor Seoul Doksan (<https://novotel.ambatel.com/doksan>), 4.8km, 96k~147k KRW
 Other Nearby hotels can be found by internet.

Transportation

- Way #1. From Incheon airport to Hoam Faculty House (HFH)
1. Take the "#6017 Airport limousine bus" at the GATE 6B or 13B. (Check the Bus time table)
 2. Get off at the last stop "Hoam Faculty House"
- Way #2. From Kimpo airport to HFH
1. Take the "#6003 Airport limousine bus" at the Bus terminal #6. The bus will depart every 20 minutes.
 2. Get off at the main gate of Seoul National University. Take a taxi to HFH from the main gate of Seoul National University
 * Shuttle service is available upon reservation only.
- Way #3. By Taxi
1. Take a taxi from Incheon/Kimpo airport to HFH.
 -Incheon Airport → HFH
 -Kimpo Airport → HFH
 -The fare could be changeable upon traffic situation.

Other Useful Information

- April 23-26 falls within a beautiful spring season in Seoul. Temperature ranges 8-13°C in the morning, and 18-23°C during the day. More information including weather, culture, travel, and attractions can be found at http://english.visitkorea.or.kr/enu/AKR/AK_ENG_1_1_1.jsp
- Entry VISA may be required for some countries. You may get VISA information at

http://www.hikorea.go.kr/pt/InfoDetailR_en.pt?categoryId=2&parentId=382&catSeq=&showMenuId=374

Scientific and Technical Themes

- Absorption / adsorption processes
- Boiling in tubular, mini-channel and plate geometries
- Desorption process
- Enhanced heat and / or mass transfer
- Lubricants / refrigerants issues
- Measurements and modeling of thermophysical and transport properties
- New fluids for sorption systems
- Natural and low GWP refrigerants for vapor compression cycles
- Refrigerant charge reduction technologies
- Secondary refrigerants including phase change slurries
- Transfer processes in heat storage systems
- (Two-phase) flow / distribution issues

Important dates

July 22, 2016	Abstract submission deadline (max 250 words)
August 19, 2016	Notification to authors of abstract acceptance
November 25, 2016	Manuscripts submitted for review
January 27, 2017	Manuscripts reviewed, Comments sent to the authors
February 24, 2017	Final Manuscripts submitted Dead-line for registration of at least one author

Paper submission

Papers must be registered on conference website (<http://www.tptpr2017.org>). Direct your questions to Secretary General: Jae Dong Chung (jdchung@sejong.edu)