

INVITATION TO INDUSTRIAL SPONSORSHIP

**13th IEA
HEAT
PUMP
CONFERENCE**



2020 | JEJU KOREA

Heat Pumps - Mission for the Green World -

KAL Hotel Jeju, Korea
April 26-29, 2021



Organized by



International Energy Agency Heat Pumping Technologies
Technology Collaboration Programme (IEA HPT TCP)

Co-organized by



The Society of Air-conditioning and
Refrigerating Engineers of Korea (SAREK)



Korea National Committee of IIR



INVITATION

Welcome,

The IEA Technology Collaboration Programme on Heat Pumping Technologies (HPT TCP) operates under the International Energy Agency, as a non-profit organization where member-country participants cooperate in projects in the field of heat pumps and related heat pumping technologies such as air conditioning and refrigeration. Under the management of an Executive Committee representing the member countries, the program carries out a strategy to accelerate heat pump use in all applications where they can reduce energy consumption for the benefit of the environment.

This event is the world's premier event where industry and research experts go to discuss the latest advancements in the field of heat pumps. Focused primarily on technical applications, the event provides a side opportunity for dialogue and the establishment of business and research partnerships.

The Heat Pump Conference is also a key event for policymakers, executives and representatives from industry, utilities and the public sector, R&D managers and technology supporters, energy managers, planners, consultants, etc. This is the place to be for all those who wish to learn about the market trends and the future applications of heat pumps.

The 13th IEA Heat Pump Conference will take place on April 26-29, 2021, a year later than originally scheduled. Due to the corona virus outbreak, the conference is held as online-offline hybrid. The offline conference is held at KAL Hotel Jeju in Korea, and the online conference is held along with offline for those who cannot attend the conference physically.

This conference is the perfect forum to learn from and communicate with industry and research experts from all over the world. In spite of the COVID-19, more than 200 high quality papers are ready to be presented. As Chairman of the National Organizing Committee (NOC), it is my pleasure to extend an invitation to showcase your technologies and products as a sponsor.

The Jeju conference will be the 13th in a series of triennial conferences. Previous conferences were held in, Graz, Austria (1984), Orlando, Florida, USA (1987), Tokyo, Japan (1990), Maastricht, the Netherlands (1993), Toronto, Canada (1996), Berlin, Germany (1999), Beijing, China (2002), Las Vegas, USA (2005), Zurich, Switzerland (2008), Tokyo, Japan (2011), Montreal, Canada (2014) and Rotterdam, Netherland (2017).

Although the conference has changed several times, we appreciate your patience, understanding and strong support of the HPC 2020. We hope you stay safe and healthy, and we are looking forward to seeing you at the conference!



Min Soo Kim

Chairman

National Organizing Committee of HPC2020

THE 13th IEA HEAT PUMP CONFERENCE ORGANIZING COMMITTEE

HEAT PUMP CONFERENCE 2020 ORGANIZING COMMITTEE

IOC (International Organizing Committee)

- Per Jonasson, Chairman IOC, Sweden
- Sophie Hosatte, Vice-Chair IOC, Canada
- Hideaki Maeyama Vice-Chair IOC, Japan



Per Jonasson



Sophie Hosatte



Hideaki Maeyama

NOC (National Organizing Committee, Republic of Korea)

- Min Soo Kim (Seoul National University), Chairman NOC, Republic of Korea
- Yong Tae Kang (Korea University), Vice Chair NOC, Republic of Korea
- Jae Dong Chung (Sejong University), Member NOC, Republic of Korea
- Young Soo Chang (Kookmin University), Member NOC, Republic of Korea
- Taesung Kim (Sungkyunkwan University), Member NOC, Republic of Korea
- Seong Hyuk Lee (Chung-Ang University), Member NOC, Republic of Korea
- Jun Young Choi (Korea Testing Laboratory), Member NOC, Republic of Korea
- Ji Hwan Jeong (Pusan National University), Member NOC, Republic of Korea
- Jeongsik Seo (Korean Refrigeration and Air Conditioning Assessment Center), Member NOC, Republic of Korea
- Dong Kyu Kim (Chung-Ang University), Member NOC, Republic of Korea
- Minsung Kim (Chung-Ang University), Conference Secretariat, Republic of Korea



CONGRESS DETAILS

CONGRESS DATE

April 26 ~ 29, 2021

CITY / COUNTRY

Jeju, Republic of Korea

VENUE

KAL Hotel Jeju

PARTICIPANTS

Between 300 and 400 delegates

CONFERENCE SECRETARY

Enlight PCO
114, Yeoksam-ro, Gangnam-gu, Seoul 06252,
Republic of Korea
Tel: +82-(0)2-6964-8320
Fax: +82-(0)2-553-7527
E-mail: secretariat@hpc2020.org
Website: www.hpc2020.org

CONFERENCE ORGANIZER

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Engineers of Korea (SAREK)
#902 KSTC New Bldg, 22 Teheran-ro 7-gil,
Gangnam-gu, Seoul 06130, Republic of Korea
Tel: +82-2-554-8571
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EXHIBITION / SUPPORT

Sponsorship and Exhibition sales
Tel: +82-(0)2-6964-8320
E-mail: secretariat@hpc2020.org

TECHNICAL AND EXHIBITION DEPARTMENT

Technical / Exhibition manager
Tel: +82-(0)2-6964-8320
E-mail: secretariat@hpc2020.org

PRELIMINARY PROGRAM

Program outline

Date/Time Session Room			Tuesday, April 27, 2021			Wednesday, April 28, 2021			Thursday, April 29, 2021		
KST (UTC+9)	EDT (UTC-4)	CEST (UTC+2)	Room A	Room B	Room C	Room A	Room B	Room C	Room A	Room B	Room C
08:30 ~09:00			Registration								
09:00 ~10:00	20:00 ~21:00	02:00 ~03:00	Opening Ceremony 09:00~09:20 (KST)			Session 4 : 09:00~10:20 (KST)			Session 9 : 09:00~10:20 (KST)		
			Plenary Lecture 1 (Policy and market) 09:20~10:35 (KST)			Low GWP Refrigerants (3)	Ground Source and Storage	Sorption Heat Pumps (1)	Variable Refrigerant Flow Heat Pumps and Air-conditioners	Heat Exchangers (2)	Food Storage and Display
10:00 ~11:00	21:00 ~22:00	03:00 ~04:00	Coffee Break and Poster Session 10:35~10:45 (KST)			Coffee Break and Poster Session 10:20~10:40 (KST)			Coffee Break and Poster Session 10:20~10:40 (KST)		
			Plenary Lecture 1 (Technology) 10:45~12:00 (KST)			Session 5 : 10:40~12:00 (KST)			Session 10 : 10:40~12:00 (KST)		
						Low GWP Refrigerants (4)	Market and Policy for Heat Pumps (2)	Electrochemical Related	Sorption Heat Pumps (3)	Dehumidification Technology	Heat Pump Performance
12:00 ~13:00	23:00 ~24:00	05:00 ~06:00	Lunch, Poster Session and Exhibition 12:00~13:00 (KST)			Lunch, Poster Session and Exhibition 12:00~13:00 (KST)			Lunch, Poster Session and Exhibition 12:00~13:00 (KST)		
13:00 ~14:00	00:00 ~01:00	06:00 ~07:00	Session 1 : 13:00~14:20 (KST)			Session 6 : 13:00~14:20 (KST)			Session 11 : 13:00~14:20 (KST)		
			Low GWP Refrigerants (1) - Natural	Air Conditioning and Cooling	Heat Pump Applications	Heat Transfer	Residential Heat Pumps	Heat Exchangers (1)	Industrial Heat Pumps (2)	Heat Pumps in HVAC systems	Advanced Controls and Modelling
14:00 ~15:00	01:00 ~02:00	07:00 ~08:00	Coffee Break and Poster Session 14:20~14:40 (KST)			Coffee Break and Poster Session 14:20~14:40 (KST)			Coffee Break and Poster Session 14:20~14:40 (KST)		
			Session 2 : 14:40~16:00 (KST)			Session 7 : 14:40~16:00 (KST)			Session 12 : 14:40~16:00 (KST)		
			Market and Policy for Heat Pumps (1)	Acoustics Signatures of Heat Pumps	Space and Hot Water Heat Pumps	Sorption Heat Pumps (2)	Heat Pumps in Smart Grids and District Heating and Cooling Systems (1)	Industrial Heat Pumps (1)	Heat Pumps combined with Thermal Energy Storage and Recovery	Nearly Zero Energy Buildings	Smart Applications of Heat Pumps
16:00 ~17:00	03:00 ~04:00	09:00 ~10:00	Break 16:00~16:10 (KST) Session 3 : 16:10~17:45 (KST)			Break 16:00~16:10 (KST) Session 8 : 16:10~17:30 (KST)			Break 16:00~16:10 (KST)		
			Low GWP Refrigerants (2)	Heat Pump Analysis - components and cycles	New Heat Pump Technologies	Ground Source Heat Pumps	Heat Pumps in Smart Grids and District Heating and Cooling Systems (2)	High Temperature Heat Pumps	Closing Ceremony 16:10~17:00 (KST)		
17:00 ~18:00	04:00 ~05:00	10:00 ~11:00									
18:00 ~22:00	05:00 ~09:00	11:00 ~15:00				Banquet (Offline only) 18:30~20:00 (KST)					
			Student Networking Event 21:00~ (KST)								

Session color	Presentation time
	EDT (for American)
	EDT/KST (for American and Asian)
	KST/CEST (for Asian and European)
	CEST (for European)

PRELIMINARY PROGRAM

• Plenary sessions

For the plenary speech, six invited speakers from all continents will give their vision on heat pump industry. The first three influential speakers will introduce global heat pump markets and policy followed by three eminent speakers providing excellent summaries on key technologies of heat pump systems.

- Policy/market overview

- Mechthild Worsdorfer, IEA Director of Sustainability, Technology and Outlooks
- Martin Forsén, President of EHPA
- Min Soo Kim, President of SAREK (Society of Air-conditioning and Refrigerating Engineers of Korea)

- Technical overview

- Saikee Oh, Vice President of LG Electronics, Korea
- Xudong Wang, Vice President of AHRI, USA
- Noboru Kagawa, Professor of National Defense Academy, Japan

• General sessions

The call for papers has successfully generated more than 206 high quality papers. To guarantee a high level quality, the papers are evaluated, screened and reviewed by the Scientific Committee. The presentations will be given as oral or poster presentations. In the technical sessions, participants will encounter numerous cutting-edge presentations.

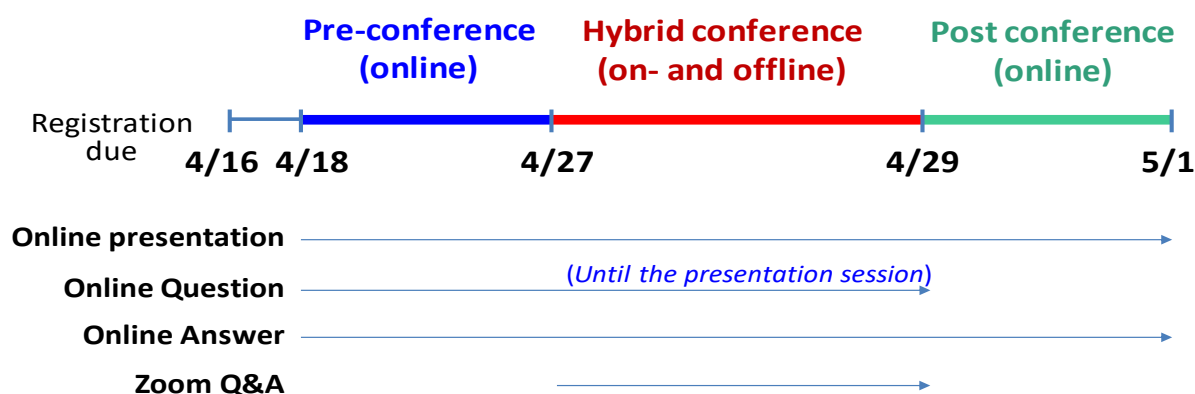
The authors of the full papers that have passed the review process were asked to confirm participation. And the total 206 papers of 237 were confirmed and accepted for the conference program. Currently, the preliminary program is ready with 180 oral presentations and 26 poster presentations.

• Updates and promotions

Detailed updates and changes will be announced promptly on the conference website <http://www.hpc2020.org> and via www.heatpumpingtechnologies.org. Although the conference has changed several times, we appreciate your patience, understanding and strong support of the HPC 2020. We hope you stay safe and healthy, and we are looking forward to seeing you at the conference!

HYBRID CONFERENCE – HOW IT WORKS

- Overall plan of hybrid conference



For the online participants, online conference platform will be provided. The conference program will be a generous online platform, which will give attendees the possibility to take part of the presentations over an extended amount of time.

The Conference will be organized to offer as much value as possible to “offline” (physical) as well as online attendees. The presentations will be pre-recorded, broadcasted online and shown at the conference venue in accordance with the conference program. However, in order to make it possible for the conference attendees to select and take part in as many presentations as possible, it is recommended to watch the pre-recorded presentations on-demand before the conference start. The whole online conference plan in accordance with the scheme is shown in below.

When it comes to questions & answers, there will be two separate schemes for the attendees as well as for the authors. It will be possible for the conference attendees to pose their questions online during the whole pre-conference as well during the conference period. The author is responsible for answering the questions until 1st of May at the latest. During the offline program slot for the presentation, the authors will be encouraged to attend online via Zoom, or physically at the venue, to be able to answer questions from the audience live.

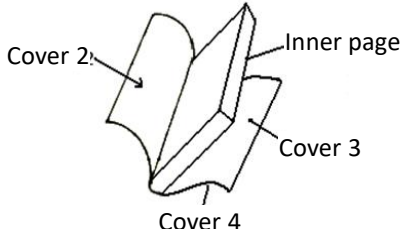
SPONSORSHIP SUPPORT

INDUSTRY SUPPORT BENEFITS

Benefits will be allocated to industry supporters based on the following table

Benefits	Sponsorship Levels				
	Diamond	Platinum	Gold	Silver	Bronze
	USD 20,000	USD 10,000	USD 5,000	USD 3,000	USD 2,000
Logo featured on the banner	O				
Logo on screensaver in session rooms	O	O			
Free conference registration	5 persons	2 persons	1 person	1 person	1 person
Advertisement on program book	O	O	O	O	
Logo on program book	O	O	O	O	O
Logo and link on the web	O	O	O	O	O

Due to the hybrid conference transition, we provide Advertisement only benefit as below.

Advertisement only (Limited pages, first come first serve bases)			
Location		Amount (USD)	
Program book advertisement (1 page ads, full color)	Back Cover (Cover 4)	3,000	
	Front Inner Cover (Cover 2)	2,000	
	Back Inner Cover (Cover 3)	2,000	
	Inner 1P (page 1)	2,000	
	Inner 1P (after the page 2)	1,000	



BOOKING FORM

Please print, complete all details and send to: **13th IEA Heat Pump Conference Secretariat**

Tel: +82-(0)2-6964-8320, Fax: +82-(0)2-553-7527, E-mail: secretariat@hpc2020.org

114, Yeoksam-ro, Gangnam-gu, Seoul 06252, Republic of Korea

Contact Name			
Company Name			
Address		City	
Post/Zip Code		Country	
Telephone		Website	
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would like to book the following supporter items.

Support Package			
Sponsorship Levels		Price USD	<input type="checkbox"/>
Diamond		20,000 USD	
Platinum		10,000 USD	
Gold		5,000 USD	
Silver		3,000 USD	
Bronze		2,000 USD	
Advertisement			
Advertising On (Full color)	Back Cover (Cover 4)	3,000	
	Front Inner Cover (Cover 2)	2,000	
	Back Inner Cover (Cover 3)	2,000	
	Inner 1P (page 1)	2,000	
	Inner 1P (after the page 2)	1,000	
Total Amount (please complete)			

Special notes: Please indicate if your stand must be located adjacent to or opposite the following companies, or if special configuration is needed.

- ☐ Provisional Booking – The item will be released if not confirmed within 14 days.
- ☐ Please email me to discuss our support package.
- ☐ Please send me a contract and first deposit invoice.