

# THE 9<sup>th</sup> INTERNATIONAL CONFERENCE ON COMPRESSOR AND REFRIGERATION, 2019

## **Second Announcement and Call for Papers**

#### **SPONSORED BY**

Xi'an Jiaotong University
Chinese Association of Refrigeration (CAR)
China Refrigeration and Air-Conditioning Industry Association (CRAA)
State Key Laboratory of Compressor Technology

#### **SUPPORTED BY**

International Institute of Refrigeration (IIR)
Air-conditioning, Heating, and Refrigeration Institute (AHRI)
Japan Society of Refrigerating and Air Conditioning Engineers (JSRAE)

XI'AN · CHINA
July 10-12, 2019
http://www.iccr-xjtu.org



The 9th International Conference on Compressor and Refrigeration (ICCR) is a series of conference, originating from the International Compressor Technique Conference (ICTC).

The first International Compressor Technique Conference was held in Xi'an, 1993. Since then, eight ICCRs have been held. This conference is an important academic conference in the field of compressors and refrigerating technology, offering attendees an opportunity to discuss the current technique, information and products. Its field includes the technique of positive displacement compressor and centrifugal compressor (design, system analysis, modeling, control and operation), and the technique concerning refrigeration, HVAC and cryogenics.

The 9th International Conference on Compressor and Refrigeration (ICCR) will be held in Xi'an Jiaotong University, Xi'an, P.R. China, on July 10-12, 2019.

The conference will cover the following topics:

- Positive Displacement & Dynamic Compressors
- Lubrication, sealing, vibration and noise
- Air-conditioning, freezing and refrigerating system
- Heat pump and energy recovery
- HVAC and high performance building technology
- Cryogenic system, Gas liquefaction and separation, Cryogenic gas compressors
- Hydrogen Recirculation and Air System in Fuel Cell
- Alternative and natural working fluid



#### **Plenary Lecture**

- 1. Visualization of oil flow in compressors and around helps improving components and systems
- —Pega Hrnjak ( University of Illinois Urbana-Champaign , USA)
- 2. The status of the Air-conditioning and Refrigeration market in Japan and the activities of JSRAE
- —Kuniaki Kawamura (Japan Society of Refrigeration and Air Conditioning Engineers, Japan)
- 3. Cryogenic techniques in Hydrogen Energy Application
- —Yanzhong Li (Xi'an Jiaotong University, China)
- 4. Compressor Cycle Energy Requirement
- —Carl Wouters (Atlas Copco, Belgium)

- 5. Effects of two-phase fluids in twin-screw Expanders
- —Andreas Brummer (Dortmund University of Technology, Germany)
- 6. Improving Vapor Compression System Efficiency through Advanced Compressor Technologies
- —Eckhard Groll (Purdue University, USA)
- 7. AHRI Updates on Positive Displacement Refrigerant Compressors and Centrifugal Compressors
- —Bridge Xue (The Air-Conditioning, Heating, and Refrigeration Institute, USA)
- 8. From Artificial Cold to Climate-Friendly Fluids; Evolution of Refrigerants Application
- —Piotr Domanski (National Institute of Standards and Technology, USA)
- 9. Emerson Copeland Scroll Compressor Technologies Introduction
- —Anantha Sharma (Emerson Climate Technologies (Suzhou) Co., Ltd )
- 10. Approaches to Energy Efficiency in Air Conditioning: Innovative Processes and Thermodynamics
- —Kim Choon Ng (King Abdullah University of Science & Technology, Saudi Arabia)



#### **Submission of Papers**

The deadline of full paper submission is extended to **April 20, 2019.** Authors should submit papers to conference manage system <a href="https://www.conftool.org/iccr2019">https://www.conftool.org/iccr2019</a>. The full paper will be presented orally or by poster in the conference.

The electronic version of the accepted full papers will be given to participants in the form of USB flash drive and accepted abstracts will be published in a booklet with ISBN. Further instructions on submissions and registration can be found on conference website: <a href="http://www.iccr-xjtu.org">http://www.iccr-xjtu.org</a>.



#### **Conference Language**

The official language for the Conference is English. All papers and presentations should be prepared in English.

## **ORGANIZATION**

## CONFERENCE CHAIRPERSON

## **Honorary Chairperson**

Didier Coulomb	International Institute of Refrigeration	France
Jiawei Jin	Chinese Association of Refrigeration	China
Jiang Li	Chinese Refrigeration and Air-conditioning Association	China
Yaling He	Xi'an Jiaotong University	China
Yezheng Wu	Xi'an Jiaotong University	China

## Chairperson

Ziwen Xing	Xi'an Jiaotong University	China
Pega Hrnjak	University of Illinois at Urbana-Champaign	U.S.A.
Yan Tang	Kaishan North America Development Center	U.S.A.

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Ruzhu Wang	Shanghai Jiaotong University	China

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Rodrigo Llopis	Jaume I University	Spain
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Huasheng Wang	Oueen Mary University of London	U.K.

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The University of Nottingham	U.K.
Southeast University	China
University of Illinois Urbana-Champaign	U.S.A.
Xi'an Jiaotong University	China
Tasmania University	Australia
Dalian University of Technology	China
KTH Royal Institute of technology	Sweden
Huazhong University of Science and Technology	China
Zhejiang University	China
University of Auckland	New Zealand
Tianjin University of Commerce	China
University of Wollongong	Australia
Technical Institute of Physics and Chemistry CAS	China
Xi'an Jiaotong University	China
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## ORGANIZATION COMMITTEE

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Weidong Lei	Zhuhai Landa Compressor Co., Ltd	China
Yudi Liu	Atlas Copco Shanghai Trading Co., Ltd	China
Lei Zhou	Dunham-Bush (China) Co., Ltd	China

#### **SECRETARY TEAM**

#### Secretary

Huagen Wu	Zhilong He	Sheng Wang	Bei Guo
Suxin Oian	Liang Pu	Leilei Wang	



Early Bird Standard (By June 1, 2019) (After June 1, 2019)

Attendee's registration fee \$500 \$600

Author's registration fee \$450 \$500

Student's registration fee \$250 \$300

Fee covers reception, banquet, meals, gift, technical tour arranged by the conference.

Spouse's Registration fee \$150 \$200

Fee covers reception, banquet, meals, gift, activities arranged by the conference

Bank Account Information:

Please pay the registration fee to the following account and send payment voucher to E-mail sec@iccr-xjtu.org.

Name of Bank	CHINA CONSTRUCTION BANK SHAANXI BRANCH	
	LIANHUSUB_BR	
Bank Address	NO.35, LIANHU ROAD, XI'AN, CHINA	
Account Number	61050171110000000550	
Account Name	Xi'an Kaili Conference & Exhibition CO., LTD	
Swift Code	PCBCCNBJSXX	



#### **CONTACT INFORMATION**

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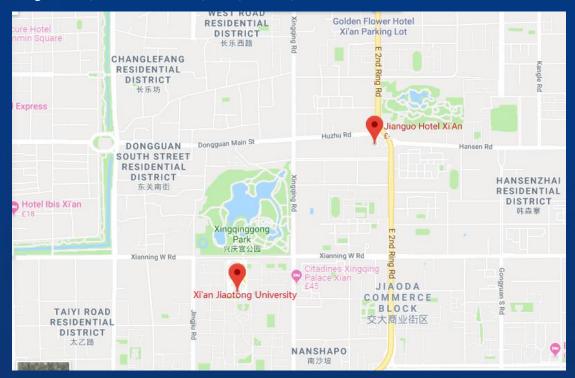
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Website: <a href="http://www.iccr-xjtu.org">http://www.iccr-xjtu.org</a>

## Conference Location



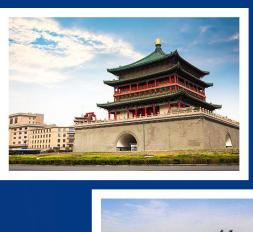


#### Transportation:

- 1, Airport bus: You can take airport bus directly to Jianguo hotel from Xi 'an xianyang international airport. Airport bus starts at 8:00am and ends at 20:00pm. It is about 80 minutes running time and charges of 25RMB.
- 2,Taxi: It takes about 60 minutes to get to Jianguo hotel from Xi 'an xianyang international airport. It costs about 150RMB.

## ABOUT XI'AN CITY

Xi'an, the eternal city, records the great changes of the Chinese nation just like a living history book. Called Chang'an in ancient times, Xi'an is one of the birthplaces of the ancient civilization in the Yellow River Basin area of the country. During Xian's 3,100-year development, 13 dynasties placed their capitals here. So far, Xi'an enjoys equal fame with Athens, Cairo, and Rome as one of the four major ancient civilization capitals.









The cultural and historical significance of the area, as well as the abundant relics and sites, help Xi'an enjoy the laudatory title of 'Natural History Museum'. The **Museum of Terra Cotta Warriors and Horses** is praised as 'the eighth major miracle of the world'. Mausoleum of Emperor Qin Shi Huang is listed on the World Heritage List, and the **City Wall** of the Ming Dynasty (1368-1644) is the largest and most intact Ming Dynasty castle in the world.

**The Bell Tower,** first built in 1384 during the Ming dynasty, is a stately traditional building, which stands in the center of the downtown area. The wooden tower with carved beams and painted rafters, has been served as the symbol of Xi'an.

**Big Wild Goose Pagoda** is a well-preserved ancient building and a holy place for Buddhists. It attracts numerous visitors for its fame in the Buddhist religion, its simple but appealing style of construction, and its new square in front of the temple. Originally built in 652 AD during the Tang Dynasty, Big Wild Goose Pagoda functioned to collect Buddhist materials that were taken from India by the hierarch Xuanzang. Five kilometers away from Big Wild Goose Pagoda, there is **Xi'an Qujiang Pool Park,** covering 247 acre. It is an open urban eco-cultural park integrating historical and cultural protection, ecological gardens, landscape, leisure tourism, folklore inheritance and art exhibition.

Around Xi'an, the Famen Temple enjoys the reputation of being the 'forefather of pagodas and

temples in Central Shaanxi, because it holds the finger bones of **Sakyamuni** -- the founder of Buddhism. The natural landscape around Xi'an is also marvelous. **Mt. Huashan**, one of the five best-known mountains in China, is famous for its breath-taking cliffs and its unique characteristics.





Additionally, there are several new spots which restore the scene of Han Dynasty and Tang Dynasty including **Tang Paradise**, **Hancheng Lake** and **Great Tang All Day Mall**. Every place is beautiful and fascinating. Welcome to Xi'an.