



ICSTI2025

The 10th International Congress on the Science and Technology of Ironmaking

August 25-29, 2025 Beijing, China

Organized by

The Chinese Society for Metals (CSM)

Co-organized by

University of Science & Technology Beijing (USTB)

Shougang Group

Supported by

Rio Tinto

Vale

Co-sponsored by

Instituto Argentino de Siderurgia

ALACERO Latino Americano Steel Association

Alliance des Minerais Minéraux et Métaux (A3M)

Associação Brasileira de Metalurgia e Materiais (ABM)

Associazione Italiana di Metallurgia (AIM)

Association for Iron and Steel Technology (AIST)

Association of the Hungarian Steel Industry

Czech Metallurgical Society

Centre de Recherches Metallurgiques (CRM)

Croatian Metallurgical Society

Jernkontoret

Stahlinstitut VDEh

The Austrian Society for Metallurgy and Materials (ASMET)

The Institute of Materials, Minerals and Mining (IOM3)

The Iron and Steel Institute of Japan (ISIJ)

The Korean Institute of Metals and Materials (KIM)

UNESID Steel Companies Association

Website: www.icsti2025.com



Contents / Important Dates

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Important Dates

- Manuscript Submission Deadline
Monday, March 31, 2025
- Author's Registration Deadline
Tuesday, July 15, 2025
- Early Registration Deadline
Tuesday, July 15, 2025
- Deadline for Cancellation
Friday, August 1, 2025
- Deadline for Plant Tour Reservation
Friday, August 1, 2025
- Deadline for Hotel Reservation
Monday, August 25, 2025
- Registration
Monday, August 25, 2025
- Conference
August 26-28, 2025
- Technical Visit
Friday, August 29, 2025

Invitation / Topics / Conference Outline / Schedule

Invitation to ICSTI2025

The 10th International Congress on the Science and Technology of Ironmaking (ICSTI2025) will be held on August 25-29, 2025, in Beijing, China, which is organized by the Chinese Society for Metals (CSM), co-organized by University of Science and Technology Beijing (USTB) and Shougang Group.

It is our pleasure to inform you that ICSTI2025 has received a highly positive response since the second announcement. Up to now, more than 380 abstracts have been received from 15 countries and regions. The exhibition preparations have also started and received a warm response. We kindly invite you to participate in this meaningful conference and are looking forward to meeting you in Beijing in the coming golden autumn.

History of ICSTI Conferences

The International Conference on the Science and Technology of Ironmaking (ICSTI), held every 3-4 years, is organized in a way that provides a forum for best practices and state-of-the-art technologies, new developments, new ideas, and research results in the steel industry. The 10th ICSTI Conference will be held in China for the second time, the previous conferences being held in:

1st ICSTI 1994: Sendai, Japan

2nd ICSTI 1998: Toronto, Canada

3rd ICSTI 2003: Düsseldorf, Germany

4th ICSTI 2006: Osaka, Japan

5th ICSTI 2009: Shanghai, China

6th ICSTI 2012: Rio de Janeiro, Brazil

7th ICSTI 2015: Cleveland, USA

8th ICSTI 2018: Vienna, Austria

9th ICSTI 2022: Bremen, Germany

Topics

The 10th ICSTI will be held in Beijing from August 25 to 29, 2025. It will bring together a wide range of experts, coming from plant operations, plant suppliers, universities, and research institutes, who share expertise in:

- Cokemaking
- Sintering
- Pelletising
- Blast furnace ironmaking
- Direct reduction
- Smelting reduction
- Hydrogen (H₂)-based ironmaking
- Electrolysis in ironmaking
- Environmental control in coke- and iron-making
- CO₂ reduction and energy saving
- Recycling of in-plant residues and wastes
- Automation, digitalization, and artificial intelligence in coke- and iron-making

Conference Outline

Date: August 25-29, 2025

Venue: Beijing International Convention Center

Official Language: English



Schedule

Date	Activity		
	<i>Morning</i>	<i>Afternoon</i>	<i>Evening</i>
August 25, Monday	--	Registration	Registration Welcome Party
August 26, Tuesday	Plenary Session	Plenary Session	Banquet
August 27, Wednesday	Parallel Sessions	Parallel Sessions	--
August 28, Thursday	Parallel Sessions	Parallel Sessions	--
August 29, Friday	Plant Tour		
Conference Venue: Beijing International Convention Center			

Organizers / Committees / Speakers

Organized by

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The Iron and Steel Institute of Japan (ISIJ)

The Korean Institute of Metals and Materials (KIM)

UNESID Steel Companies Association

International Scientific Committee

Chairman:

Jianliang Zhang, University of Science and Technology Beijing, China

Members:

Aiguo Ao	China Baowu Steel Group, China
Alexander Babich	RWTH Aachen, Germany
Mansoor Barati	University of Toronto, Canada
Jean-Pierre BIRAT	IF Steelman, France
Pasquale Daniele Cavaliere	University of Salento, Italy
Robert Cromarty	University of Pretoria, South Africa
Hai Chang	MCC Capital Engineering & Research Incorporation Limited, China
Shaohui Chen	Shagang Group, China
Nikhil Dhawan	Indian Institute of Technology, India
Govind Gupta	Indian Institute of Science, India
Zhongping Hao	Baogang Group, China
Tom Honeyands	University of Newcastle, Australia
Tao Jiang	Central South University, China
Jan van der Stel	Tata Steel, the Netherlands
Eiki Kasai	JFE Steel Corp., Japan
Zushu Li	University of Warwick, UK
Zhengjian Liu	University of Science and Technology Beijing, China
Liming Lu	CSIRO, Australia
Xionggang Lu	Shanghai University, China
Xuewei Lv	Chongqing University, China
Jinsong Meng	University of Science and Technology Liaoning, China
Samik Nag	TATA Steel Ltd., India
Hiroshi Nogami	Tohoku University, Japan
Ko-ichiro OHNO	Kyushu University, Japan
Dauter Oliveira	Vale S.A., Brazil
Guoyou Pan	WISDRI Engineering & Research Incorporation Limited, China
Martin Pei	SSAB, Sweden
Yuanhong Qi	China Iron & Steel Research Institute Group Co., Ltd.
Petrus Pistorius	Carnegie Mellon University, USA

Henrik Saxen	Åbo Akademi University, Finland
Johannes Schenk	Montanuniversität Leoben, Austria
Yansong Shen	University of New South Wales, Australia
Fengman Shen	Northeastern University, China
Myoung Gyun Shin	POSCO, Korea
Pontus Sjöberg	Swerim AB, Sweden
Chuan Wang	Swerim AB/KTH, Sweden
Hongbin Wang	Taiyuan Iron & Steel (Group) Co., Ltd., China
Xindong Wang	HBIS Group Co., Ltd., China
Chunbao Xu	City University of Hong Kong, China
Wanren Xu	Beijing Jianlong Heavy Industry Group Co., Ltd., China
Yongxiang Yang	Technische Universiteit Delft, the Netherlands
Tianjun Yang	University of Science and Technology Beijing, China
Kishimoto Yasuo	JFE Steel Corp., Japan
Hengdi Ye	Zhongye Changtian International Engineering Co., Ltd., China
Aibing Yu	Monash University, Australia
Fuming Zhang	Shougang Group, China
Junjie Zhang	Zenith Steel Group Co., Ltd., China
Renliang Zhu	China Baowu Steel Group, China
Zhongping Zou	CISDI Group Co., Ltd., China
Jianwei Zhu	Angang Group, China
Qingshan Zhu	Institute of Process Engineering, Chinese Academy of Sciences, China
Zulfiadi Zulhan	Institut Teknologi Bandung, Indonesia

Local Organizing Committee

Chairman:

Zhiling Tian, The Chinese Society for Metals, China

Members:

Guosen Zhu	Shougang Group, China
Fengqiang Liu	Ansteel Group Co., Ltd., China

Yiren Li	HBIS Group Co., Ltd., China
Xiaoming Mao	China Baowu Steel Group, China
Ping Du	Shagang Group, China

Secretary General

Xinjiang Wang, The Chinese Society for Metals, China

Deputy Secretary General

Kejiang Li, University of Science and Technology Beijing, China

Plenary Lecturers (updated on April 14, 2025)

1. Tao Jiang, Central South University, China

Presentation Title: Innovation and Advances in the preparation of ironmaking burdens in China

2. Yutaka Ujisawa, Nippon Steel Corporation, Japan

Presentation Title: Japanese Steel Industry's Challenge toward Carbon Neutral Steelmaking

3. Jianliang Zhang, University of Science and Technology Beijing, China

Presentation Title: Progress and Innovations in the Chinese Ironmaking Industry

4. Myoung Gyun Shin, POSCO, Korea

Presentation Title: Update on the development of POSCO's hydrogen-based Ironmaking process, HyREX®

5. Gele Qing, Shougang Research Institute of Technology, China

Presentation Title: Practice and Prospect of Carbon Reduction in Shougang Long Process Steel Production

6. Pontus Sjöberg, Swerim AB, Sweden

Presentation Title: The Green Transition of the steel industry in Sweden – state of the art

7. Daihua Zhang, Baoshan Iron & Steel Co., Ltd., China

Presentation title: Exploration of Green and Intelligent Technologies in Ironmaking at Baosteel

8. Dennis D. Lu, ArcelorMittal Global RDEC & RDSF, United States

Presentation Title: Innovation and Technological Transformation in Ironmaking at ArcelorMittal

9. Aibing Yu, Monash University, Australia

Presentation Title: To be determined

10. S. S. Mohanty, Essar Minmet Limited, India

Presentation Title: To be determined

Call for Papers / Registration / Visa Application

Manuscript

The manuscripts are requested to submit through the conference website before **March 31, 2025**. All the accepted manuscripts will be published in electronic form and will be available to download on the conference website.

Please kindly download the authors guide, sample format and copyright transfer form from the conference website (www.icsti2025.com).

Conference Proceedings

All the accepted manuscripts will be published by Metallurgical Industry Press which will be issued to attendees at the conference. The proceedings of ICSTI2025 will be indexed by Scopus of Elsevier.

Presentation

- ✧ Authors could choose the type of presentation (oral or poster) in the registration. The final result will be given to the author after the paper is reviewed by experts.
- ✧ Each presentation could be arranged in the technical program only if at least one author's registration fee is paid before **July 15, 2025**.

Registration

- ✧ Registration Deadline for Authors July 15, 2025
- ✧ Early Registration Deadline for Participants July 15, 2025

Fees

Category	<u>Early Registration</u>	<u>Regular Registration</u>
	Before July 15, 2025	After July 15, 2025
Author/Regular Participant	CNY 5000	CNY 5500
Student Author/Participant	CNY 2500	CNY 3000
Accompanying Person	CNY 2000	

**Notes: 1) Each accepted paper will be published in the conference proceedings and arranged in the*

technical program only if at least one author's registration fee is paid before July 15, 2025.

2) Students are requested to submit the copy of their student ID.

Entitlement

Registration fee for regular participant and student cover:

Conference fee, All official documentation (technical program book, conference proceedings USB, etc.), Welcome Reception, Banquet, Tea/Coffee Break, Lunch and supper buffet during the conference, Name badge

Registration fee for accompanying person cover:

Welcome Reception, Banquet, Tea/Coffee Break, Lunch and supper buffet during the conference

Method of Payment

1. Online Payment

2. Through the conference online payment , all payments could be made by credit card.

2. Bank Transfer

Please transfer the registration fee to the following bank account, and specify with "ICSTI2025, Registration No.". A copy of remittance certificate is requested to send to the conference secretariat or submit to the conference website.

Name of Bank	INDUSTRIAL AND COMMERCIAL BANK OF CHINA BEIJING MUNICIPAL BRANCH WANG FU JING SUB-BRANCH OFFICE
Beneficiary and Account Holder	The Chinese Society for Metals
Address	NO.237 WANG FU JING STREET, DONG CHENG DISTRICT, BEIJING 100006 P.R.CHINA
SWIFT ADDRESS	ICBKCNBJBJM
Account Number	0200000709089116848

**Notes: 1) The registration fee doesn't include the bank charge.*

2) The receipt shall be provided at the registration desk during the conference.

3) Check payment is not accepted.

3. Payment in CNY at the Registration Desk

Participants can pay the registration fee on-site by credit card in CNY according to the exchange rate on the registration day.

Cancellation

Refunds cannot be given if cancellations received after August 1, 2025. Substitutions can be accepted at any time.

Please indicate the bank, branch and account number clearly to which the refund should be sent, and the refund will be made after the conference.

Cancellation	Refund
Before August 1, 2025	80%
After August 1, 2025	No refund (Conference proceedings will be sent to the authors after the conference)

Visa Application

People from most countries are required to obtain a visa to enter the People's Republic of China. ICSTI2025 participants who are required to apply for visa to enter China can apply for a Chinese visa at the nearest Embassy or Consulate of China in your countries. For some visa applications, the process could take some time to complete, depending on your country of origin and certain visa restrictions so we would like to suggest you start the visa application as early as possible. For participants who need the official invitation letter for visa application, please log in your account and download it in "My Page" after paying the registration fee.

Tips: Local organizers could NOT provide conference invitation letter to accompanying personnel according to related regulations. We suggest that accompanying people apply for tourism type visa, which will be much easier and require less paperwork.

Notes:

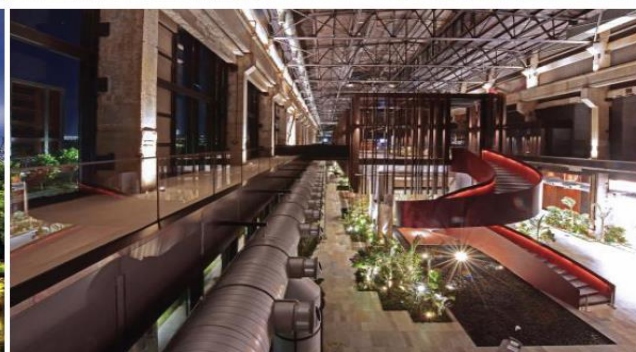
1. You should guarantee that all information provided is true and correct.
2. In the letter for visa, we can only guarantee your stay in Beijing during the conference.
3. General visa information should be obtained from your local Embassy or Consulate of China.

Plant Tour

We are providing an option for delegates to visit the nearby plants (details below) on last day of the conference. Transportation and food will be arranged by us. We can accommodate a limited number of delegates for each plant and it would be based on first come first serve basis. In order to arrange the plant tour smoothly, please give us the confirmation before August 1, 2025. On-site registration is not accepted.

✧ USD 50/person

Shougang Park was included in the first batch of pilot areas for the transformation of old industrial areas in urban areas in China, national pilot areas for the comprehensive reform of the service industry, national sustainable development pilot areas, Zhongguancun national independent innovation demonstration areas, national smart city pilot areas and Beijing green ecological demonstration areas. It is the first C40 positive climate model area in China. The official entry of the Beijing Organizing Committee for the 2022 Winter Olympic and Paralympic Games in 2016 was a milestone in the development of Shougang Park.



In the past six years, Shougang Park has made breakthroughs in urban renewal with its Olympics projects, seized the opportunity of the Winter Olympic Games, focused on “cultural, industrial, ecological and vitality rejuvenation”, and promoted the comprehensive completion of New Shougang Area’s “Three-year Action Plan”. Its infrastructure carrying capacity and environmental quality have significantly improved, high-end elements have quickly gathered and innovation vitality has been initially released. The construction of new landmarks for urban rejuvenation has achieved initial results and positive social responses. Shougang Park has become a classic case of urban renewal driven by the Olympic Movement in the world.



Conference Venue / Hotel Reservation

ICSTI2025 will be held in Beijing International Convention Center on August 25-29, 2025. Beijing Continental Grand Hotel(★★★★) is next to the conference venue and our recommended hotel. They are located in Olympic Games Village, a flourishing area of Beijing which has a collection of conference center, businesses, shopping centers and entertainment venues. Some hotels with different prices and styles close to them could be also selected by attendees.



For the participants of “ICSTI2025”, the special rates of Beijing Continental Grand Hotel will be effective from August 25-29, 2025. Please indicate your order in the hotel reservation through the following link:

<https://www.bcghotel.com.cn/english/order.asp?id=7593>

- King Bed Room: CNY 658 per night (Including breakfast)
- Twin Beds Room: CNY 658 per night (Including breakfast)

**Notes: 1) The rooms are reserved on a first-come-first-served basis.*

2) The deadline of hotel reservation is August 25, 2025.

3) After you reserve the hotel online successfully, the hotel will send you the confirmation letter. If you have problems in reservation online, please contact with the conference secretariat.

Conference Venue: Beijing International Convention Center

Address: No.8 Beichen Dong Road, Chaoyang District, Beijing P. R. China 100101

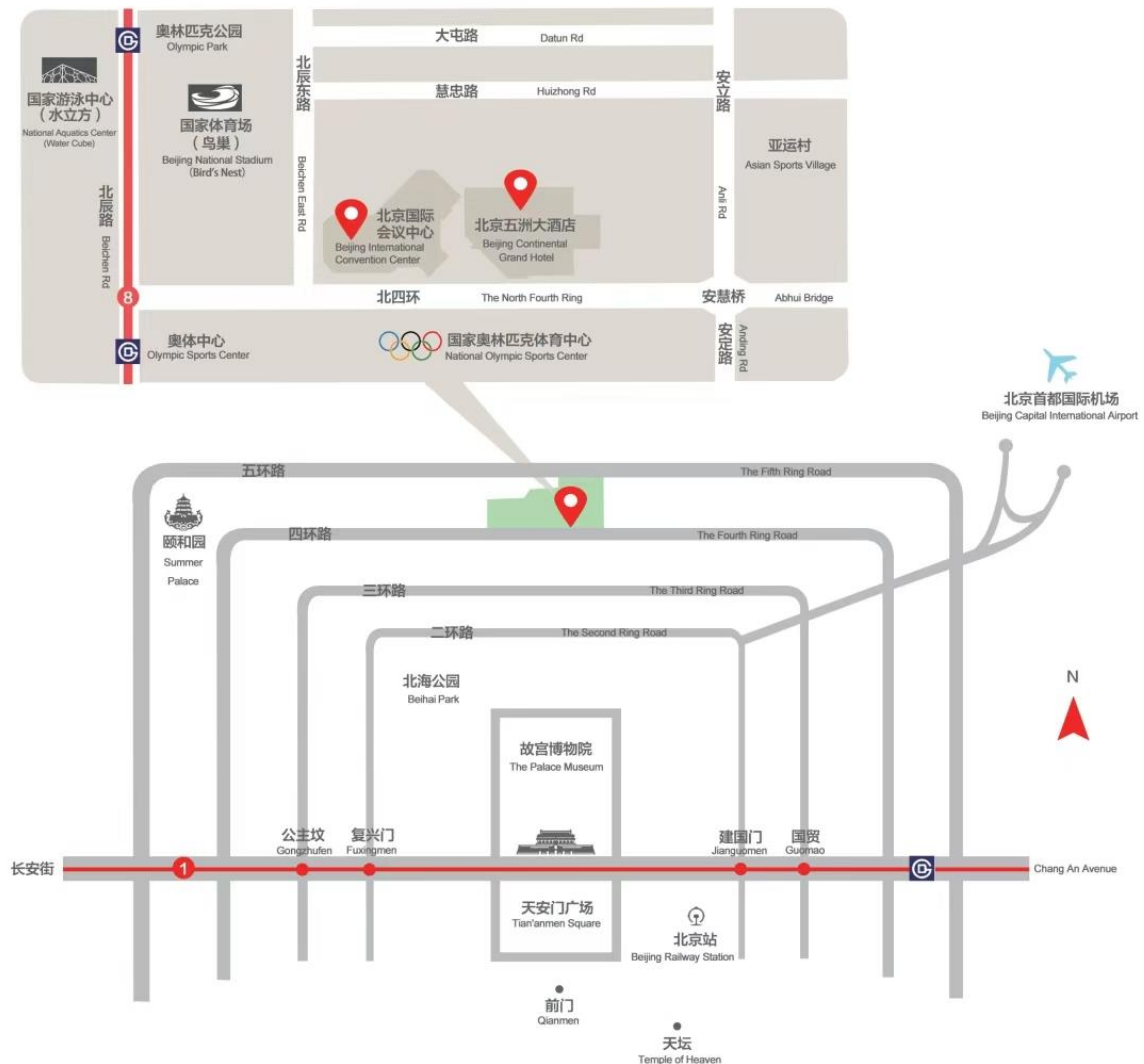
Tel.: +86-10- 84985588 **Fax:** +86-10- 84972651

Website: <http://www.bicc.com.cn/english/index.html>

* The conference venue and Beijing Continental Grand Hotel are 20 kilometers east away to the Capital Airport, and 9 kilometers south away to Tiananmen Square, center of Beijing. Please show Taxi drivers the following note for your convenience to the conference venue and the hotel.

Transportation Guide

Map of Conference Venue



Access by air from Beijing Capital International Airport

• By Subway:

Total time: 1 hour and 8 minutes. Total cost: CNY 28.

- Walk to Terminal 2 (Exit D, southwest) and take the Capital Airport Line towards Beixinqiao Station.
 - At Sanyuanqiao Station, transfer to Subway Line 10 Outer Ring towards Chedaogou Station.
 - Then at Huixin Xijie Nankou Station, transfer to Subway Line 5 towards Tiantongyuan North Station.
- Get off at the terminal station HuixinXijieBeikou Station (Exit A, northwest). You need to walk about 1.9 kilometers during transfers, which takes around 26 minutes.

• By Taxi:

Total time: 34 minutes. Distance: 24.7 kilometers.

- The route is along Capital Airport Road (900 meters) and then S12 Airport Expressway (12.1 kilometers). Taxi fares may vary based on the meter, including a starting fee and charges per kilometer and per minute during the journey.
- Please show Taxi drivers the following note for your convenience to the conference venue.

Please take me to Beijing Continental Grand Hotel. Thank you!
请送我到北京五洲大酒店（地址：朝阳区北辰东路 8 号； 电话：010-84985588）

Access by air from Beijing Daxing International Airport

• By Subway:

1 hour and 20 minutes. Total cost: CNY 40.

- Enter from Daxing Airport (Exit A) and take the Beijing Daxing International Airport Line towards Caoqiao Station.
- At Caoqiao Station, transfer to Subway Line 19 towards Mudanyuan Station.
- Then at Mudanyuan Station, transfer to Subway Line 10 Inner Ring towards Bagou Station.
- At Beitucheng Station, transfer to Subway Line 8 towards Zhuxin Zhuang Station. Get off at the terminal station Olympic Sports Center (Exit B1, north). You need to walk 1.7 kilometers during transfers, taking around 25 minutes.

• By Taxi:

Total time: 1 hour and 2 minutes. Distance: 67.8 kilometers.

- The route passes through Liuxiang Bridge (26.7 kilometers). Taxi costs will be calculated according to the taxi - fare system, with factors such as distance and waiting time affecting the final price.
- Please show Taxi drivers the following note for your convenience to the conference venue.

Please take me to Beijing Continental Grand Hotel. Thank you!
请送我到北京五洲大酒店（地址：朝阳区北辰东路 8 号； 电话：010-84985588）

General Information

Climate and Clothing

During August, the average temperature in Beijing is 21-30°C.

Currency

Only CNY is acceptable at regular store and restaurants. Foreign currency or traveler's checks can be change into CNY at major banks and airports.

Credit Cards

Credit cards are widely accepted. Commonly recognized cards include Visa and MasterCard.

Tipping

There is no custom of tipping anywhere in China, even at hotels and restaurants. On certain occasions, however, a service charge is added to the bill.

Electrical Appliances

The voltage in China is 220 volts for electrical appliances. Electrical sockets usually accept two-pronged (vertical) plugs and three-pronged (vertical) plugs.

Insurance

The organizer cannot accept responsibility for accidents which might occur. It is recommended that participants take out adequate medical, travel and personal insurance prior to the commencement of travel.

Privacy Policy

All necessary pre-cautions and measures to ensure security of all personal information have been taken. Your personal information is strictly confined to the use of administrative purposes by the conference organizer.

Contact (about the conference)

Mr. Xin Zhao, Ms. Fang Liu, The Chinese Society for Metals

Prof. Zhengjian Liu, Prof. Kejiang Li, University of Science and Technology Beijing

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Fax: +86-10-65124122

Email: icsti2025@csm.org.cn Website: www.icsti2025.com