



First Announcement / Call for Papers

# Asia Steel 2024

## The 9<sup>th</sup> Asia Steel International Conference

September 4-7, 2024 Changsha, P. R. CHINA

### Call for Papers (1<sup>st</sup> Announcement)

#### Organized by

The Chinese Society for Metals (CSM)

#### Sponsored by

The Chinese Society for Metals (CSM)

The Indian Institute of Metals (IIM)

The Iron and Steel Institute of Japan (ISIJ)

The Korean Institute of Metals and Materials (KIM)

#### Co-organized by

Hunan Iron & Steel Group Co., Ltd.



一般社団法人  
日本鉄鋼協会  
The Iron and Steel Institute of Japan



Conference Website: [www.asiasteel2024.com](http://www.asiasteel2024.com)



## General Information

The 9<sup>th</sup> Asia Steel International Conference (Asia Steel 2024) will be held in Changsha, Hunan Province, China on September 4-7, 2024, which is a continuation of the 1<sup>st</sup> and 5<sup>th</sup> Asia Steel International Conference (2000, 2012) in China, the 2<sup>nd</sup> and 7<sup>th</sup> Asia Steel International Conference (2003, 2018) in India, the 3<sup>rd</sup> and 6<sup>th</sup> Asia Steel International Conference (2006, 2015) in Japan and the 4<sup>th</sup> and 8<sup>th</sup> Asia Steel International Conference (2009, 2021) in Korea.

As the largest steel producer in the world, the steel industry in Asia is facing serious challenge in R&D for further higher production efficiency, better quality of steel products and more friendly to environment. Asia Steel 2024 is to provide a forum for the academia, researchers and engineers from Asia and also all around the world to exchange state-of-the-art development and information on issues related to the iron and steel production and processing. We kindly invite you to participate in this meaningful conference and are looking forward to meeting you in Changsha, which is known as a "Mainland City with the Best Overseas Image", an "East Asia Cultural City", and "City of Media Arts" in the UNESCO Creative Cities Network.

## Topics

The Conference will cover topics concerning the following issues:

### 1. Fundamentals of Steels:

- Chemical Metallurgy
- Physical Metallurgy

### 2. Ironmaking and related technologies:

- Agglomeration
- Coking
- Blast Furnace Ironmaking
- Non-Blast Furnace Ironmaking

### 3. Steelmaking and Continuous Casting:

- Hot Metal Pretreatment
- BOF Steelmaking
- Electric Arc Steelmaking

- Secondary Refining
- Casting
- Slab Quality
- Inclusion Control

#### **4. Rolling and Thermomechanical Treatment:**

- Billet Treatment
- Hot Rolling
- Cold Rolling
- Finishing Process
- Thermomechanical Treatment, etc.

#### **5. Steel Products and Application:**

- Special Steels
- Structural Steels for Automobiles, Building, Shipbuilding, Energy, Engineering Machinery and Others

#### **6. Digitization and Intelligence of Metallurgical Process:**

- Big Data Analysis and Modeling of Metallurgical Process
- High Throughput Experimentation of Metallurgy
- Rapid Prototyping and Screening of Steel Products Based on High-Throughput Computing
- Quantitative Relationship Model of Composition-Process-Microstructure-Performance for Steel Products
- Digital Twin and Process Optimization of Steel Manufacturing Process Based on Mechanism Models and Big Data Analysis

#### **7. Resources and Environment:**

- Resource Conversion
- CO<sub>2</sub> Capture and Utilization
- By-product Utilization
- Environmental Protection Strategy

#### **8. Analysis and Characterization:**

- Chemical Analysis, Physical Analysis
- Performance Characterization
- High Throughput Characterization
- Characterize under Extreme Conditions
- Testing in Complex Environments
- Failure Analysis
- Evaluation of Quality and Life

## **9. New Processes and Technologies in the Metallurgy:**

- Hydrogen Metallurgy
- Plasma Metallurgy
- Smelting Reduction
- Electrolysis Ironmaking
- Integrated Casting and Rolling
- Biological Metallurgy
- Exploitation and Utilization of Urban Mine
- Higher Value Application of Scrap Resources, etc.

## **Organizers**

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### **Co-organized by**

Hunan Iron & Steel Group Co., Ltd.

## **Committees**

### **Conference Chairman**

**Xiaogang Zhang** (The Chinese Society for Metals, China)

## **International Advisory Board**

### **Chairman:**

**Yong Gan** (The Chinese Society for Metals, China)

### **Members:**

**Govind S. Gupta** (Indian Institute of Science, India)

**Tao Jiang** (Central South University, China)

**Youn-Bae Kang** (Pohang University of Science and Technology, Korea)

**Kaori Kwan-Miyata** (Nippon Steel Corporation, Japan)

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## **Technical Committee**

### **Chairmen:**

**Xinping Mao** (University of Science and Technology Beijing, China)

**Zhiling Tian** (The Chinese Society for Metals, China)

## **Secretary General**

**Chengjia Shang** (University of Science and Technology Beijing, China)

## **Call for Papers**

All contributions on the theme of the conference as described previously are welcome.

Prospective authors are invited to submit the abstract of 300 words (in English) to the conference secretariat through the conference website: [www.asiasteel2024.com](http://www.asiasteel2024.com) before **February 28, 2024**. The abstract should provide sufficient information for a fair assessment.

## **Official Language**

Official language for Asia Steel 2024 is English.

## Important Dates

Abstract Submission Deadline	February 28, 2024
Notification to Authors	April 15, 2024
Second Announcement	May 31, 2024
Technical Program	August, 2024
Registration Date	September 3, 2024
Conference Date	September 4-6, 2024
Post Technical-Visit	September 7, 2024

## Exhibition and Sponsorship Opportunities

In conjunction with Asia Steel 2024, The Chinese Society for Metals would like to invite you as a plant manufacturer and plant supplier in the fields of steel industry to actively participate in our conference.

It is estimated that many experts in the steel industry from all over the world will participate in Asia Steel 2024. Your contribution and participation will help us make the symposium a successful event.

You should not miss this opportunity to promote new products, outline services and highlight key achievements to the delegates of Asia Steel 2024. This is an excellent opportunity to do business and maintain key contacts with customers and suppliers.

Companies interested in becoming a sponsor are kindly requested to send an email to the conference secretariat ([asiasteel2024@csm.org.cn](mailto:asiasteel2024@csm.org.cn)).

## Conference Secretariat

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