4th circular of 16th Korea–China Joint Symposium on Advanced Steel Technology

August 26–28, 2026, GRAVITY JOSUN Seoul Pangyo, Pangyo, Korea

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Objective

The symposium is intended to bring together scientists and engineers from Korea and China to have an insight into the latest developments in steel science and technologies, and provides a forum for the exchange of ideas and opinions in the area of innovative, creative, and challenging processes.

THEME

The theme of the symposium covers a broad spectrum about

- High-temperature physical chemistry
- Iron- and Steelmaking, Casting
- Rolling and forming technology
- Alloy design
- Environmental metallurgy

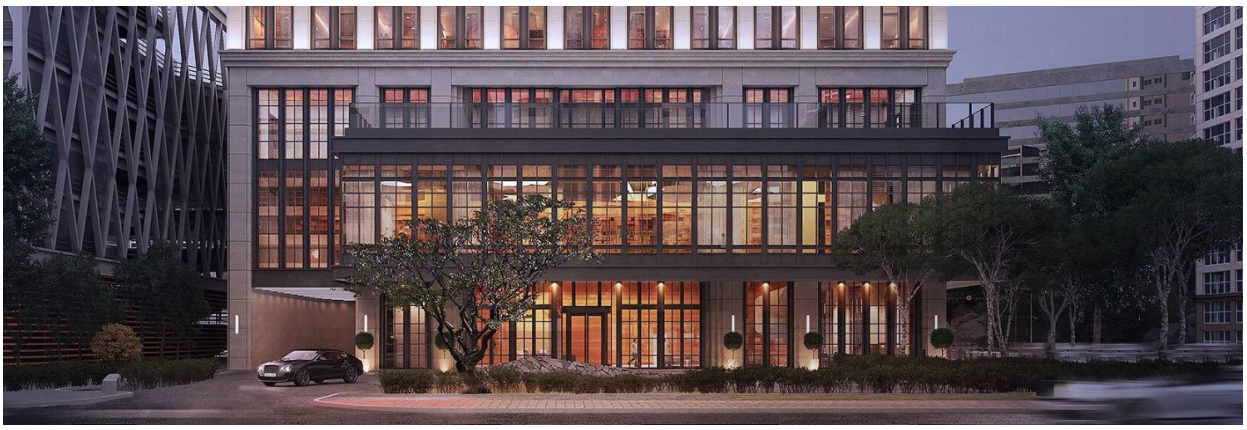
As the symposium emphasizes the exchange of ideas and cross-fertilization among participants, it is encouraged not only to present completed work, but also to bring up ideas that are not proven, but challenging, ongoing works that seek peer advice, and technical or theoretical difficulties encountered during particular research in progress.

VENUE and ACCOMMODATION

GRAVITY JOSUN SEOUL PANGYO (★★★★)

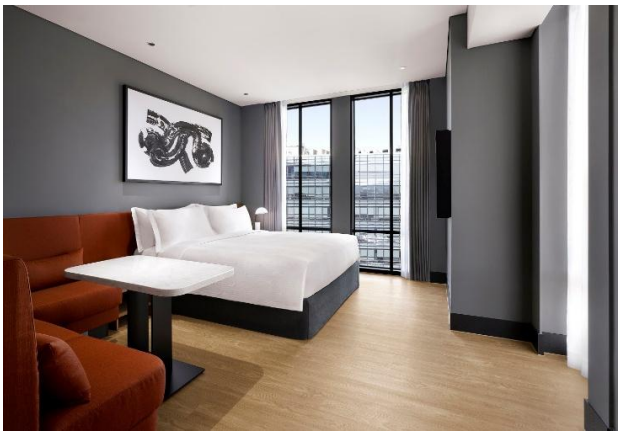
- Address: 2, Pangyoyeok-ro 146 beon-gil, Bundang, Seongnam, Gyeonggi, Korea
- Tel: +82-31-539-4800

April 25, 2026

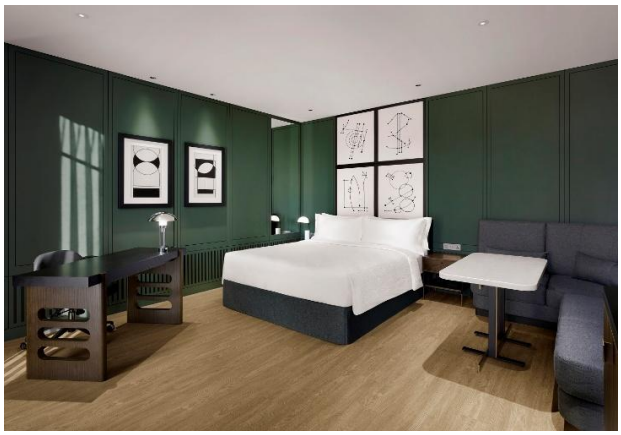


GRAVITY JOSUN Seoul Pangyo

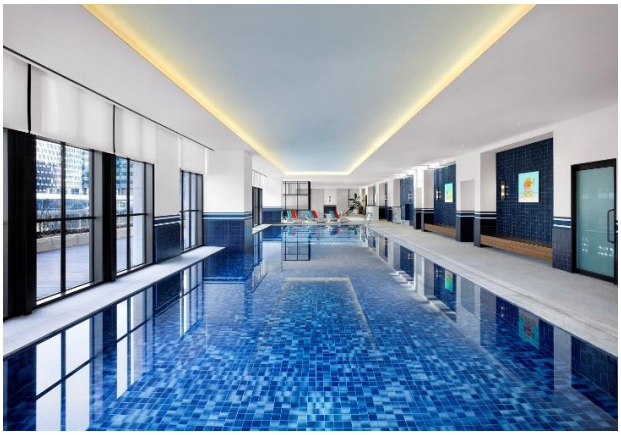
Conference room



Business deluxe room



Premier deluxe room



Pool

Gym

TRANSPORTATION from/to Incheon International Airport

All participants are asked to move to the symposium venue individually. No shuttle service is provided.

- Taxi:
  - There are taxi stands at Incheon International Airport. It costs approximately 70,000 KRW from the airport to the hotel venue (about 1 hour, but depend on traffic conditions) ; recommended for groups with 3 people

- Limousine bus: no. 5000 (Toward Pangyo station) ;
  - Incheon International Airport Terminal 1 or 2 → Get off at Pangyo Station (The North Side) → 5-minute walk to venue hotel (~ 400m)

- Charter bus:
  - One charter bus will be prepared around 15;00 at Incheon International Airport Terminal 1 or 2 (tentative)

VISA INFORMATION

Participants who require a visa to enter Korea should apply at the Korean Embassy or Consulate in their country.

KIM office will handle the travel visa arrangements by providing an official invitation letter upon request.

For visa-related inquiries or requests for an invitation letter, please contact:

- Ms. Sohee Kim (Korean Institute of Metals and Materials), (eml@kim.or.kr)

SYMPOSIUM SCHEDULE AND KEY DATES

- Wednesday, August 26, 2026
  - Registration
  - Board meeting
  - Welcome reception, dinner
- Thursday, August 27, 2026
  - Technical session
  - Symposium official banquet
- Friday, August 28, 2026
  - Post-symposium plant tour ; **Hyundai Steel Company Dangjin Works** (Pangyo-to-Dangjin, 90 min. by bus)
  - Lunch included

- Key Dates
  - Abstract submission due: **3 July 2026**
  - Manuscript submission due: **31 July 2026**
  - Attendance form due: **3 July 2026**
  - Abstract, manuscript, and attendance form should be sent to Ms. Sohee Kim, Korea Institute of Metals and Materials, Korea (eml@kim.or.kr)

PRESENTATION

Only invited lectures will be given.

- Invited lecture: 20 minutes (including Q&A)
- Equipment: A multi-media beam projector with a computer will be available

PROGRAM

27 August

Time	Title	Speaker	Affiliation	Chair
08;30-08;35	Welcoming address	Joohyun Park	Hanyang University	
08;35-08;40	Congratulatory speech	Kyung-Keun Um	KIM representative	
08;40-08;45	Congratulatory speech	Zhiling Tian	CSM representative	
08;45-09;05	Multiscale Research on Hydrogen-Based Direct Reduction of Iron Ore: From Atomistic Simulations to the Shaft Furnace Process	Kejiang Li	USTB	tba
09;05-09;25	Development of POSCO's hydrogen-based Ironmaking process, HyREX	tba	POSCO	
09;25-09;45	Update on the H2-Based DRI-EAF Process at HBIS Group	Yongqiang Yang	HBIS Group	
09;45-10;05	Prediction of Electrical Characteristics Across Diverse Arc Regimes in Electric Smelting Furnace Operations	Hyunjin Yang	Inha University	
10;05-10;30	Coffee break			
10;30-10;50	Mechanical properties of intercritically annealed 3Mn TRIP steel with a bimodal grain structure	Jinkyung Kim	Hanyang University	tba
10;50-11;10	Steel rolling manufacturing in the age of artificial intelligence	Nanfu Zong	Ben Gang Group	
11;10-11;30	Development of Prediction Technology for Coating Properties of Galvannealed Steel Sheets Using a Combination of Online XRD and Machine Learning	Bongjoo Goo	Hyundai Steel	
11;30-11;50	Development of High-Conductivity and High-Corrosion-Resistant Ferritic Stainless Steel for Coating-Free Bipolar Plates in Fuel Cells	Haiwen Luo	USTB	
11;50-12;00	Group photo			
12;00-13;30	Lunch			
13;30-13;50	Development and Application of Digital and intelligent Technologies for Shasteel's Ironmaking Process	Ping Du	Jiangsu Shagang Steel	tba
13;50-14;10	Counter-Current Blast Furnace Model Using FactSage Cascade Simulation	Min-Kyu Paek	Technische Universität Clausthal	
14;10-14;30	Transformation, Upgrading, and Technological Innovation of China's Ironmaking Furnace Burden under the Dual-Carbon Goals	Mingjun Rao	Central South University	
14;30-14;50	Effect of Low Melting Point Additives on the Quality Characteristics of Sinter for Carbon Reduced Sintering	Seungseok Oh	Hyundai Steel	
14;50-15;10	Operational Practice of Clean Steel Production in Shougang Jingtang's New-Generation Steel Manufacturing Process	Yanqiang Liu	Shougang Jingtang United Iron and Steel	
15;10-15;30	Integrated Thermochemical and Kinetic Analysis of Non-Metallic Inclusion Evolution during Ladle Refining and Continuous Casting	Jaehong Shin	Korea Institute of Industrial Technology	
15;30-16;00	Coffee break			
16;00-16;20	Improvement of the solidification and hot-working qualities of S32654 super austenitic stainless steel by feeding Ce-bearing steel strip	Zhouhua Jiang	Northeastern University	tba
16;20-16;40	Formation mechanism and intelligent control of periodic liquid level fluctuation in continuous casting mould	Sen Luo	Northeastern University	
16;40-17;00	Development of a Quantitative Evaluation Model for Center Segregation	Junhyun Jo	Hyundai Steel	
17;00-17;20	Effect of Magnesium-Cerium Composite Treatment on Inclusions and Machinability of High-Sulfur Steel	Jian Yang	Shanghai University	
17;20-17;40	Multiscale insights into structural evolution and property responses in welding fluxes	Cong Wang	Northeastern University	
17;40-18;00	Prediction of spot welding properties of giga steel	Dooyeol Choi	POSCO	
18;30-21;00	Banquet			

28 August (tentative) ; plant tour

Time	Activity			
08;30	Get together in front of hotel, and departure			
08;30-10;00	Arrival at Hyundai Steel (Dangjin Works)			
10;00-10;30	Introduction of Hyundai Steel (including safety check)			
10;30-12;00	Plant tour (steelmaking, rolling, finishing line)			
12;00-12;30	Move to Hyundai VIP guest hotel			
12;30-14;00	Lunch			
14;00-15;30	Arrival at venue hotel (Pangyo)			

REGISTRATION FEE (early bird registration with payment, 3 July 2026)

- **Online pre-registration:** 3 July 2026 **(https://kim.or.kr/events/?tab=4&part=01&c_id=148)**
- **Onsite registration:** 26 August 2026

(On-site payment is possible, but early-bird online payment is recommended.)

ORGANIZING COMMITTEE

- **Chairs**
  - Prof. Joo Hyun Park (Hanyang University)
  - Prof. Min Jiang (University of Science and Technology Beijing)
- **Organizing Advisor**
  - Prof. Em. Jong-Jin PAK (Hanyang University)
  - Prof. Yongsug Chung (TU Korea)
  - Prof. Em. Xinhua WANG (University of Science and Technology Beijing)
- **Organizing Committee**
  - Prof. Youngjo KANG (Dong-A University)
  - Prof. Youn-Bae Kang (POSTECH)
  - Prof. Sun-Joong Kim (Chosun University)

GENERAL SECRETARY

- Ms. Sohee Kim (Korean Institute of Metals and Materials), (eml@kim.or.kr)