

2nd circular of 11th Korea-China Joint Symposium on Advanced Steel Technology

August 28-30, 2019
HOTEL NANTA, Jeju, Korea

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 exchange of ideas and opinions in the area of innovative, creative and challenging processes.

THEME

The theme of the symposium covers a broad spectrum in relation to

- High temperature physical chemistry
- Ironmaking
- Steelmaking (Solidification & Continuous Casting)
- Sustainable and environmental processing
- Product metallurgy fundamentals

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

VENUE and ACCOMMODATION

HOTEL NANTA

- Address: 56-26, Seondolmokdong-gil, Jeju-si, Jeju-do, Korea
- Tel: +82 64 727 0602
- Website: <http://www.hotelnanta.com/en/>



Transportation from/to Jeju International Airport

Hotel shuttle Bus

For predetermined arrival schedule, a shuttle bus will take you from the airport to Hotel Nanta.
Detailed information for the shuttle bus will be announced.

Individual transportations

Taxi

There are taxi stands at Jeju International Airport.

It will cost approximately 12,000 KRW from airport to HOTEL NANTA by a taxi (about 20 minutes)

Rent a Car

Attendee can also rent a car at the airport. Please inquire of the tourist information center about details

SYMPOSIUM SCHEDULE AND KEY DATES

- **Wednesday, August 28, 2019**

Registration will begin at Hotel from 15:00

Welcome dinner will be served from 18:30

- **Thursday, August 29, 2019**

The symposium runs from 8:30 to 16:30

The symposium performance will start from 17:00

The symposium banquet will start at the hotel from 18:30

- **Friday, August 30, 2019**

The symposium runs from 8:30 to 12:00

Post symposium tour in the afternoon (Detailed information is attached.)

- **Key Dates**

Registration: 30 June 2019

Attendance form should be sent to Ms. Sohee Kim, Korea Institute of Metals & Materials, Korea

E-mail address: eml@kim.or.kr

Manuscript submission: 12 July 2019 (extended)

Manuscript should be sent to Prof. Yongsug Chung, Korea Polytechnic University, Korea

E-mail address: ychung@kpu.ac.kr

PRESENTATION

- Keynote lecture: 30 minutes

- Contributed paper: 20 minutes

- Equipment: A multi-media beam projector with a computer will be available

FEES AND EXPENSES

- Registration Fees: **KRW 500,000 for a regular participant (accompanying person: KRW 200,000) and KRW 300,000 for a student participant.**

- Payment methods: CASH (Korean Won) or CREDIT CARD at symposium site
- The registration fee for the participants includes; symposium proceeding, meals (welcome dinner on Aug. 28, breakfast, lunch and symposium banquet on Aug. 29, breakfast and lunch on Aug. 30), coffee during formal sessions and post symposium tour
- Accommodation Fee: **KRW 80,000 per night (VAT included) for Deluxe room in HOTEL NANTA, which shall be paid by attendants**

ORGANIZING COMMITTEE

Symposium Chair

Prof. Jong Jin PAK (Hanyang University)

Prof. Xin Hua WANG (University of Science and Technology Beijing)

Local organizing committee

Yongsug CHUNG (Korea Polytechnic University)

Youn-Bae KANG (Pohang University of Science and Technology)

Youngjo KANG (Dong-A University)

Joonho LEE (Korea University)

Joo Hyun PARK (Hanyang University)

Il SOHN (Yonsei University)

Kyung-Woo YI (Seoul National University)

POST SYMPOSIUM TOUR

- A Course: Sungsan Ilchulbong (UNESCO World Natural Heritage)

Seongsan Ilchulbong Peak, which is 180m above sea level, erupted underwater in the ocean about 5,000 years ago, which makes it a very rare case among the many craters in Jeju Island.

- B Course: Saryeoni Forest

Saryeoni Forest Path is a forest walking trail that starts from Bijarim-ro and goes through Mulchat Oreum Volcanic Cone and Saryeoni Oreum Volcanic Cone. Its starting point is located at National Road No. 1112, which is thick with Japanese cedars. A variety of species of trees grow in the forest, such as Konara Oak, Red-Leaved Hornbeam, Japanese Snowbell, Hinoki Cypress, Japanese cedar and average altitude is 550m.



<Sungsan Ilchulbong>



< Saryeoni Forest >

Tentative Schedule of the 11th Korea-China Joint Symposium on Advanced Steel Technology

date	time	events
28-Aug Wed.	15:00	registration
	18:00	welcome dinner
29-Aug Thu.	8:00	welcome address and congratulatory comment
	8:10	(KN) Progress and Outlook on Ironmaking Technology of Shougang in Recent Year / Fuming Zhang
	8:40	(KN) Dissolution and precipitation kinetics in Nb-microalloyed steel /Young-Kook Lee
	9:10	The State-of-Art of Niobium Microalloying Technology / Aimin Guo
	9:30	Development of intellegent width prediction and control in hot and cold rolling lines / Seung Min Hur
	9:50	coffee break
	10:10	Consecutive improvement and progress of enviromental protection technologies in ironmaking process / Yonglong Jin
	10:30	Cost Evaluation based on the Integrated Model in Ironmaking Process / Jonghwun Jung
	10:50	EAF operation with 100% DRI / Alberto N. Conejo
	11:10	Study for the evolution of Reoxidation products in Ti-added Al Killed Ultra Low Carbon Steel / Wan-Yi Kim
	11:30	Improvement of HAZ toughness of steel plate after large heat input welding by use of inclusion control technology / Jian Yang
	11:50	group photo
	12:00	lunch
	13:10	Strategy to Control Line Defects on Low Carbon Steel Cold-Rolled Thin Plates / Lifeng Zhang
	13:30	Dissolution of alumina inclusion in RH slag containing FetO / Youn-Bae Kang
	13:50	New Technology for Thin Slab Surface Crack Control during Continuous Casting of Microalloyed Steel / Miaoyong Zhu
	14:10	Application of thermodynamic database to smart factory: Steelmaking process / In-Ho Jung
	14:30	Numerical Simulation on Formation and Influence Factors of "W-Shaped" Solidification End-Point along the Width Direction of Casting Slab for Heavy Reduction Technology / Min Jiang
	14:50	coffee break
	15:10	Novel technology and application for preventing slab transverse corner crack of micro-alloyed steel / Minglin Wang
	15:30	Prevention of transverse corner cracks of slabs in continuous casting by control of slab's corner temperature / Eun-Kyu Lee
	15:50	Chemical activation of steel-making slag for the application of wastewater treatment / Zuotai Zhang
	16:10	Ferro-alloy Production from Spent Petroleum Catalysts by Reductive Smelting and Selective Oxidation Processes / Jong-Jin Pak
	16:30	free time
	17:00	NANTA performance
	18:30	banquet
30-Aug Fri	8:10	(KN) Study of Thin Slab Continuous Casting Quality Control / Wanlin Wang
	8:40	(KN) Enhancement of Mechanical Strength of Additively Manufactured 316L Stainless Steel by Dispersed Oxide Inclusions / Jung-Wook Cho
	9:10	Research on Improving Central Defects of Billet by External Vibration strike / Chang Shen
	9:30	Investigation into the Initial Solidification of Steel Grades Using a Differential Scanning Calorimetry / Sung Suk Jung
	9:50	coffee break
	10:10	Validity of the Deep learning Algorithm for development of the 3rd Gen Q&P (Quench and Partitioning) steel ; Partitioning prediction by ANN and qunatitative generation of the martensitic structure by GAN / Nam Hoon Goo
	10:30	Introduction to Shagang's Castrip production line / Hualong Li
	10:50	Phase diagram and experimental investigation of CoCrMnNi-Fe connecting high-alloyed steels and high-entropy alloys / Nokeun Park
	11:10	Wrinkling behavior of spring arm under stamping process for high strength steels / Zhihong Tian
	11:30	Deformation mechanisms and mechanical properties of Fe-Mn-C-(Al) TWIP steels / Jin Kyung Kim
	11:50	closing remark
	12:00	post symposium tour