14th Japan-China Symposium on Science and Technology of Iron and Steelmaking

Toward the strongest countries for iron and steelmaking technology

4-6 September 2016 at Sendai Metropolitan Hotel, Sendai, Japan

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4 September 2016

17:30-20:00 **Registration**

18:00-20:00 Welcome party

5 September 2016

8:00 Registration

9:00 **Opening remarks**

Tetsuya Nagasaka, Tohoku University, Japan

Xinhua Wang, University of Science and Technology Beijing, China

9:10-10:50

Chairperson Tetsuya Nagasaka, Tohoku University

Chairperson Xinhua Wang, University of Science and Technology Beijing

9:10 Progress and Future Prospects of Steelmaking Technologies in JFE Steel [Keynote]

Yuji Miki, JFE Steel, Japan

9:35 SGJT-Newly Constructed Integrated Steelworks in Bohai Gulf

Guosen Zhu, Shougang Jingtang United Iron and Steel Company, China

10:00 Gas Permeability in Blast Furnace under Low Carbon Rate Operation

Shigeru Ueda, Tohoku University, Japan

10:25 Current Status and Future Prospects of Chinese Ironmaking Industry

Tao Jiang, Central South University, China

10:50-11:10 **Coffee break**

11:10-12:00

Chairperson Shigeru Ueda, Tohoku University

Chairperson Jian Yang, Baosteel Group Corporation

11:10 Improvement of Sintering Speed by Adding Return Fine to Granulated Raw Materials before Charging Sintering Machine

Masaru Matsumura, Nippon Steel Sumitomo Metal, Japan

11:35 Comprehensive Evaluation and Optimization of Raw Materials used for Blast Furnace Ironmaking

Tao Jiang, Central South University, China

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Chairperson Masaru Matsumura, Nippon Steel Sumitomo Metal

Chairperson Tao Jiang, Central South University

13:30 Energy Saving of the Ironmaking Process based on the Oxygen Blast Furnace

Koichi Takahashi, JFE Steel, Japan

13:55 Optimization of Interface Material Flow Operation of BF-BOF Section

Xiuping Li, Central Iron & Steel Research Institute, China

14:20 Exergy Analysis of Chemical Vapor Infiltration (CVI) Ironmaking System

Tomohiro Akiyama, Takahiro Nomura, Hokkaido University, Japan

14:45 Green Development: The Future Direction of Chinese Steel Industry

Fangqin Shangguan, Central Iron & Steel Research Institute, China

15:10-15:30 Coffee break

Chairperson Takahiro Miki, Tohoku University
Chairperson Yunbo Zhong, Shanghai University

15:30 Water Model Evaluation for Slag-Metal Stirring Performance in the BOF Type Hot Metal Pretreatment Furnace

Keita Ouchi, Kobe Steel, Japan

15:55 **Optimized Control of Liquid Ferruginous Mass Flow in Converter-Secondary Refining-Continuous Casting Process**

Anjun Xu, University of Science and Technology Beijing, China

16:20 Oxidation States and Coordination Structures of Iron Ions in Silicate Slags

Miyuki Hayashi, Tokyo Institute of Technology, Japan

16:45 The Correlation between Structure and Property of Molten Slag and its Application in Mould Fluxes

Qifeng Shu, University of Science and Technology Beijing, China

17:10 Closing remarks for first day and announcement

18:00 Banquet

using MATRACE model

	Chairperson	Miyuki Hayashi, Tokyo Institute of Technology			
	Chairperson	Qifeng Shu, University of Science and Technology Beijing			
9:00	Separation of In	on Oxide and Phosphorus Oxide from Steelmaking Slag by Solid Phase			
	riecipitation	Takahiro Miki, Tohoku University, Japan			
9:25	Study on the An	plication of Electromagnetic Field in Ferrometallurgy Processes			
7.23	Otady on the Ap	Yunbo Zhong, Shanghai University, China			
9:50	The Behavior of	f Non-Metallic Inclusions in Steel during Hot Deformation and the Effects of			
		sions on Local Ductility			
		Kenichi Yamamoto, Nippon Steel Sumitomo Metal, Japan			
10:15	Control of Al₂O₃ Content in Inclusions in Spring Steels through Slag Refining				
		Lifeng Zhang, University of Science and Technology Beijing, China			
10:40-11	:00 Coffee break				
	Chairperson	Kenichi Yamamoto, Nippon Steel Sumitomo Metal			
	Chairperson	Lifeng Zhang, University of Science and Technology Beijing			
11:00	Role of Nucleat	ion Point on Initial Solidification			
		Hisao Esaka, National Defense Academy, Japan			
11:25	Development on Thin Slab Casting and Direct Rolling Process in China				
		Xinping Mao, Wuhan Iron and Steel (Group) Corporation, China			
11:50-13	3:30 Lunch				
	Chairperson	Ichiro Daigo, The University of Tokyo			
	Chairperson	Xinping Mao, Wuhan Iron and Steel (Group) Corporation			
13:30	Development of	Electric Arc Furnaces for Uniform Melting			
		Yoshikazu Tanaka, Daido Steel, Japan			
13:55	Continuous Cas	ting Technology and Slab Quality Control for High Manganese Steel			
		Jian Yang, Bao Steel Group Corporation, China			
14:20	Dynamic Mater	rial Flow Analysis of Nickel and Chromium Associated with Steel Material			

Tetsuya Nagasaka, Tohoku University, Japan

14:45 An Investigation on Initial Solidification of Molten Steel near the Mold Corner by using Mold Simulator

Wanlin Wang, Central South University, China

15:10-15:30 Coffee break

Chairperson Hisao Esaka, National Defense Academy Chairperson Wanlin Wang, Central South University

15:30 Impurity Contamination in Steel by Repeated Recycling

Ichiro Daigo, The University of Tokyo, Japan

15:55 Retention Characteristics of Ultra-Low Carbon Steel Slab Corner Shape and its Influence on Edge Defects of Steel Strip

Minglin Wang, Central Iron & Steel Research Institute, China

16:20 Closing remarks

Kazuya Kunitomo, Kyusyu University, Japan