

# 10<sup>th</sup> China-Korea Joint Symposium on Advanced Steel Technology

Oct. 21, 2018 – Oct.23 2018 Gucun Park Hotel, Shanghai, China

## FINAL PROGRAM

- ◆ Jointly organized by Chinese Society for Metals (CSM) and Korean Institute of Metals and Materials (KIM)
- ♦ Hosted by State Key Laboratory of Advanced Special Steel, Shanghai University

### Symposium Agenda

Date	Time	Schedule	Location
October 21 <sup>th</sup>	14:00~21:00	Registration	Gucun Park Hotel, Shanghai
	18:00~20:00	Welcome Party	Buffet-Western Dinning Hall, Gucun Park Hotel,
	08:30~08:55	Opening Ceremony	Kaixuan Hall
	08:55~09:00	Group Photo	Gate of Gucun Park Hotel
October	09:00~12:30	Session 1 & 2	Kaixuan Hall
22 <sup>th</sup>	12:30~13:30	Lunch	Baihe Hall
	13:30~17:35	Session 3 & 4	Kaixuan Hall
	18:00~20:00	Banquet	Baihe Hall
	08:30~12:00	Session 5 & 6	Kaixuan Hall
	12:00~12:10	Closing Remarks	Kaixuan Hall
October	13:30~18:00	Tour	Shanghai Center Tower
23 <sup>th</sup>			Yuyuan Garden
	18:00~20:30	Dinner	Cruising on the Huangpu River
	21:00		Back to Hotel

## **Symposium Schedule**

#### Monday, October 22th, 2018

Location: Kaixuan Hall, Gucun Park Hotel

Section   Meteory Content   Prof. King   P	Location: Kaixuan Haii, Gucun Park Hotei				
98:35-98:40  98:36-98:40  98:36-98:40  98:40-98:45  Prof. Jong in Fac Name Control Prof. Xinhua WANG  98:40-98:45  Prof. Jong in Fac Name Control Prof. Xinhua WANG  98:40-98:45  Prof. Minghong WU Wee President of Shanghal University, China  Prof. Shanghal University China  98:50-98:55  Prof. Wee President of Shanghal University, China  18:50-98:55  Prof. Wee President of Shanghal University, China  18:50-98:55  Prof. Wee President of Shanghal University, China  President of KIM, Korea  99:40-98:45  Key Notel Strong Potential of Commercialized High Mn Steel Products and Process for Various Applications and Process for Various Applications Brown Strong Strong Wang HAN (Inha University)  99:40-98:45  Key Notel Strong Potential of Commercialized High Mn Steel Products and Process for Various Applications Brown Strong Strong Wang HAN (Inha University)  99:40-10:15  Prof. Royal May 1991  Rev. Soung yonk KIM, POSCO, Korea  10:50-10:20  Prof. Soung wan KIM, POSCO, Korea  Prof. Soung wan KIM, POSCO, Korea  10:50-11:15  Prof. Soung wan KIM, POSCO, Korea  Prof. Soung wan KIM, POSCO, Korea  11:40-12:05  Smelting Reduction for Hot-metal Production and Coal Gasification  Prof. Soung wan KIM, POSCO, Korea  11:40-12:05  Smelting Reduction for Hot-metal Production and Coal Gasification  Melting Initiation and Dropping Characteristics in Blast Furnace with Enhancement of Ore Burden Reducibility  Prof. Soung Wang KIC, Control Iron & Steel Research Institute, China  11:40-12:05  Smelting Reduction for Hot-metal Production and Coal Gasification  Prof. Soung Wang KIC, Control Iron & Steel Research Institute, China  11:40-12:05  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emissi	Welcoming Address Chair: Prof. Xinhua WANG				
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Os.40-08.45   Prof. Minghong WU   Nice President of Shonghal University, China	08:35-08:40				
98:45-08:18  98:50-08:55  Pr. Pei ZIADO 98:54-08:19  Pr. Ryung Tae HONG President of Kin. Korea  99:40-19  99:00-09:45  Responsibility Chinese Chair: Prof. Zhongming REN Korean Chair: Prof. Jeong Whan HAN (Inha University)  99:00-09:45  Responsibility Chinese Chair: Prof. Zhongming REN Korean Chair: Prof. Jeong Whan HAN (Inha University)  99:00-09:45  Responsibility Chinese Chair: Prof. Zhongming REN Korean Chair: Prof. Jeong Whan HAN (Inha University)  99:40-10:05  Prof. Seong you ha Kid. PONCO. Korean  99:40-10:05  Prof. Langling HOU. HBIS Group Technology Research Institute, China  10:05-10:30  10:05-10:30  Coffee Break  Prof. Zhonghan Jung Hou. HBIS Group Technology Research Institute, China  10:05-10:30  Coffee Break  Prof. Seong you kid. PONCO. Korean  10:30-10:50  Coffee Break  Research Institute of Prof. Shancheng GUO Korean Chair: Dr. Seung-wan KIM (PONCO)  Smelling Reduction for Hot-metal Production and Coal Gasification Prof. Zonghan 2010. Northeastered University, China  11:40-12:05  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission Reduction Effect  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission Reduction Effect  12:30-13:30  Lunch-at Baihe Hall, Gueun Park Hotel  Session 3  Chinese Chair: Prof. Anjun XU Korean Chair: Prof. Joohyun Park (Hanyang University)  13:30-13:55  Fifted of Pressure on Solidification Structure in Nitrogen-Containing Steel Ingot Prof. Zhouhan JIANG, Northeastern University, China  14:20-14:45  Prof. Zhonghan JIANG, Northeastern University, China  Chinese Chair: Prof. Xhonkan JIANG, Northeastern University, China  14:20-14:45  Prof. John China China Microsophical Conditions on CoCMnNiFe System Bridging High-Entropy Alloys and High-Prof. Nokean PARK, Yeungam University, Korea  15:10-15:30  Coffee Break  Chinese Chair: Prof. Zhonkan JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polyscehnic University)  A Model for Scrap Metting in De-P BOF Prof. Anjun XU. Whitersity of S	Congratulatory Address Chair: Prof. Xinhua WANG				
08:50-08:55  Dr. Kyung Tae HONG President of Kilk. Korea  08:55-09:00  Group Photo at Hotel Gate  Session 1  Chinese Chair: Prof. Longming REN Korean Chair: Prof. Jeong Whan HAN (Inha University)  09:00-09:45  Kiky Note) Strong Potential of Commercialized High Mn Steel Products and Process for Various Applications Dr. Scong-yeon Kilk. PoSCO, Korea  09:40-10:05  Application and practice of synergistic control technology of sulfur and nitrate pollutants in HBIS Dr. Changing HOU. HBIS Group Technology Research Institute, China  Improving Sintering Performance by the Selective Granulation of High AltO: Iron Ore and Ultraffine Iron Ore Dr. Scong-wan Kilk. PoSCO, Korea  10:30-10:50  Coffee Break  Session 2  Chinese Chair: Prof. Zhancheng GUO Korean Chair: Dr. Seung-wan KIM (POSCO)  Smelling Reduction for Hot-metal Production and Coal Gasification Prof. Zongth. 2000. Northeastern University. China  11:15-11:40  Melting Initiation and Dropping Characteristics in Blast Furnace with Enhancement of Ore Burden Reducibility Dr. Wan has KIM, POSCO, Korea  11:40-12:05  Research of Steel Manufactory Process-oriented Poly-generation System and Its Energy Saving & Emission Reduction Effect  Dr. Xiaping LI, Central Iron & Steel Research Institute, China  11:40-12:05  Poly Jan How ChOI, Hyandai Steel, Korea  12:30-13:30  Lunch-at Baile Hall, Gocun Park Hotel  Session 3  Chinese Chair: Prof. Anjan XU Korean Chair: Prof. Joohyun Park (Hanyang University)  13:30-13:55  Prof. Zhonban HANG, Northeastern University, China  14:20-14:45  The Recent Development on Application of Electromagnetic Field in Refining and Continuous Casting Process of Steel  Prof. Jeongka HANG, Changam Motional Oniversity, China  14:20-14:45  The Recent Development on Application of Electromagnetic Field in Refining and Continuous Casting Process of Steel  Prof. John & CHON, Changam University, China  Chinese Chair: Prof. Zhonhua JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polytechnic University)  The Recent Development on Application of Electromagnetic Field	08:40-08:45				
98:50-900  Group Photo at Hotel Gate  Session 1  Chinese Chair: Prof. Zhongming REN Korean Chair: Prof. Jeong Whan HAN (Inha University)  19:00-09:45  [Key Note] Strong Potential of Commercialized High Mn Steel Products and Process for Various Applications Dr. Seong, year KIM, POSCO, Korea  10:40-10:05  Application and practice of synergistic control technology of sulfur and nitrate pollutants in HBIS Dr. Changling BOU, HBIS Gong Technology Research Institute, China  10:65-10:30  Improving Sintering Performance by the Selective Granulation of High Al:O: Iron Ore and Ultrafine Iron Ore Dr. Seung, wan KIM, POSCO, Korea  10:30-10:50  Coffee Break  Session 2  Chinese Chair: Prof. Zhancheng GUO Korean Chair: Dr. Seung, wan KIM (POSCO)  10:50-11:15  Prof. Zangshu ZOU, Northeastern University, China  Melting Initiation and Dropping Characteristics in Blast Furnace with Enhancement of Ore Burden Reductibility Dr. Wan-ho KIM, POSCO, Korea  11:40-12:05  Reduction Effect Dr. Xinjung LI, Central Iron & Steel Research Institute, China  12:05-12:30  Lunch-at Baihe Hall, Gueun Park Hotel  Session 3  Chinese Chair: Prof. Anjan XU Korean Chair: Prof. Joohyan Park (Hanyang University)  Dr. Van Hee CHOI, Hyundia Steel, Korea  13:30-13:55  Effect of Pressure on Salidification Structure in Nitrogen-Containing Steel Ingot  Prof. Zhonshas JIANG, Northeastern University, China  14:20-14:45  Effect of Pressure on Salidification Structure in Nitrogen-Containing Steel Ingot  Prof. Jonghas JIANG, Northeastern University, China  14:20-14:45  Experimental Investigation and Phase Diagram of CoCrMnNiFe System Bridging High-Entropy Alloys and High-Alloyd Steels  Prof. Jonghas JIANG, Northeastern University, Korea  15:10-15:30  Coffee Break  Session 4  Chinese Chair: Prof. Zhouhua JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polytechnic University)  A Model for Scrap Melting in De-P BOF  Prof. Anjan XU, University of Science & Technology Beijing, China  Feyerimental Study on DRI Production by Both of Composite Carbon and Gas Reduction	08:45-08:50				
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12:30-13:30  Lunch-at Baihe Hall, Gucun Park Hotel  Session 3  Chinese Chair: Prof. Anjun XU Korean Chair: Prof. Joohyun Park (Hanyang University)  13:30-13:55  Effect of Pressure on Solidification Structure in Nitrogen-Containing Steel Ingot Prof. Zhouhua JIANG, Northeastern University, China  13:55-14:20  Unraveling the critical microstructures to determine the impact toughness of medium Mn steel with triplex phase Prof. Jeongho HAN, Chungnam Notional University, Korea  14:20-14:45  The Recent Development on Application of Electromagnetic Field in Refining and Continuous Casting Process of Steel Prof. Yunbo ZHONG, Shanghai University, China  Experimental Investigation and Phase Diagram of CoCrMnNiFe System Bridging High-Entropy Alloys and High-Alloyed Steels Prof. Nokeun PARK, Yeungnam University, Korea  15:10-15:30  Coffee Break  Session 4  Chinese Chair: Prof. Zhouhua JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polytechnic University)  15:30-15:55  A Model for Scrap Melting in De-P BOF Prof. Anjun XU, University of Science & Technology Beijing, China  15:55-16:20  Optimization of EAF process charging Hot-Metal for special steel Dr. Jong-Deok KIM, Hyundai Steel, Korea  16:45-17:10  Experimental Study on DRI Production by Both of Composite Carbon and Gas Reduction	11:40-12:05	Reduction Effect			
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14:20-14:45 Steel Prof. Yunbo ZHONG, Shanghai University, China  Experimental Investigation and Phase Diagram of CoCrMnNiFe System Bridging High-Entropy Alloys and High-Alloyed Steels Prof. Nokeun PARK, Yeungnam University, Korea  15:10-15:30 Coffee Break  Session 4 Chinese Chair: Prof. Zhouhua JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polytechnic University)  15:30-15:55 A Model for Scrap Melting in De-P BOF Prof. Anjun XU, University of Science & Technology Beijing, China  15:55-16:20 Optimization of EAF process charging Hot-Metal for special steel Dr. Jong-Deok KIM, Hyundai Steel, Korea  16:20-16:45 Separation of Fine Inclusion from Liquid Steel under Super Gravity Prof. Zhancheng GUO, University of Science & Technology Beijing, China  16:45-17:10 Experimental Study on DRI Production by Both of Composite Carbon and Gas Reduction	13:55-14:20	• •			
14:45-15:10 Alloyed Steels Prof. Nokeun PARK, Yeungnam University, Korea  15:10-15:30 Coffee Break  Session 4 Chinese Chair: Prof. Zhouhua JIANG Korean Chair: Prof. Yongsug CHUNG (Korea Polytechnic University)  15:30-15:55 A Model for Scrap Melting in De-P BOF Prof. Anjun XU, University of Science & Technology Beijing, China  15:55-16:20 Optimization of EAF process charging Hot-Metal for special steel Dr. Jong-Deok KIM, Hyundai Steel, Korea  16:20-16:45 Separation of Fine Inclusion from Liquid Steel under Super Gravity Prof. Zhancheng GUO, University of Science & Technology Beijing, China  16:45-17:10 Experimental Study on DRI Production by Both of Composite Carbon and Gas Reduction	14:20-14:45	Steel			
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10'45-17'10   -	16:20-16:45	Separation of Fine Inclusion from Liquid Steel under Super Gravity			
.,	16:45-17:10	Experimental Study on DRI Production by Both of Composite Carbon and Gas Reduction Prof. Youngjo KANG, Dong-A University, Korea			

17:10-17:35	Progresses of Continuous Casting Technology Development at Shougang Group Dr. Chenxi JI, Research Institute of Technology, Shougang Group Co., Ltd, China	
18:00-20:00	Banquet, Baihe Hall, Gucun Park Hotel	

#### Tuesday, October 23th, 2018

#### Location: Kaixuan Hall, Gucun Park Hotel

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Session 5	Chinese Chair: Prof. Li WANG Korean Chair: Dr. Yong-hee KIM (Hyundai Steel)				
08:30-09:10	[Key Note] Solidification and Inclusion Characteristics of High Manganese Steel Prof. Jian YANG, Shanghai University, China				
09:10-09:35	Improvement of Bloom Longitudinal Surface Crack through SEN Design Optimization Dr. Jong-Dae SHIN, Hyundai Steel, Korea				
09:35-10:00	Research on Inclusion Control in High Grade Gear Steel Dr. Zhaoping CHEN, Baoshan Iron & Steel Co., Ltd., China				
10:00-10:25	A study on the utilization of slag as high value added resources  Dr. Eun Jin JUNG, RIST, Korea				
10:25-10:45	Coffee Break				
Session 6	Chinese Chair: Prof. Jian YANG Korean Chair: Prof. Nokeun PARK (Yeungnam Univ)				
10:45-11:10	Microstructures And Mechanical Properties Of Cold-Rolled Interstitial-Free Steel After Flash Processes  Prof. Haiwen LUO, University of Science & Technology Beijing, China				
11:10-11:35	Hyper-connected Research and Education System for Future Society - Center for Research and Education of Metallurgy  Prof. Joonho LEE, Korea University, Korea				
11:35-12:00	Recent Progress of Development and Application of the New Gen. AHSS in Baosteel				
	Dr. Li WANG, Baoshan Iron & Steel Co., Ltd., China				
Closing Rema	nrks				
12:00-12:05	Prof. Xinhua WANG University of Science & Technology Beijing, China				
12:05-12:10	Prof. Jong Jin PAK Hanyang University, Korea				
12:10-13:00	Lunch-at Baihe Hall, Gucun Park Hotel				
Tour					
13:30-15:30	Shanghai Center Tower				
15:30-18:00	Yuyuan Garden				
18:00-20:30	Dinner-Cruising on the Huangpu River				
21:00	Back to Hotel				