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

Tentative Schedule

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 Jingtaing 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
12:00-13:30 **Lunch**

13:30-15:10

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**
6 September 2016

Chairperson  Miyuki Hayashi, Tokyo Institute of Technology
Chairperson  Qifeng Shu, University of Science and Technology Beijing

9:00  **Separation of Iron Oxide and Phosphorus Oxide from Steelmaking Slag by Solid Phase Precipitation**
Takahiro Miki, Tohoku University, Japan

9:25  **Study on the Application of Electromagnetic Field in Ferrometallurgy Processes**
Yunbo Zhong, Shanghai University, China

9:50  **The Behavior of Non-Metallic Inclusions in Steel during Hot Deformation and the Effects of Deformed Inclusions 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 Nucleation 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

11:50-13:30  **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 Casting Technology and Slab Quality Control for High Manganese Steel**
Jian Yang, Bao Steel Group Corporation, China

14:20  **Dynamic Material Flow Analysis of Nickel and Chromium Associated with Steel Material using MATTRACE model**
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