

## 第 6 回日本・中国鉄鋼学術会議参加者募集のお知らせ

The 6th Japan-China Symposium on  
Science and Technology of Iron and Steel

本会は、中国金属学会との間で過去 5 回標記会議を開催しておりますが、今回の第 6 回は「製鉄、製鋼、製鉄・製鋼のオートメーション」をテーマとして開催することになりました。本会議では“討論”に重点を置きますので、関連のあるテーマにつき研究されている会員、または興味をお持ちの会員で、本会議に寄与できる方々の参加申込をお待ちしております。

1. 期 日 1992 年 11 月 17 日 (火)・18 日 (水)
2. 場 所 千葉市 川崎製鉄(株)みやぎき倶楽部及び千葉研修センター
3. テ ー マ (1) Ironmaking  
(2) Steelmaking  
(3) Automation of Iron and Steelmaking
4. 講演タイトル

## 日 本

## Ironmaking

- 1 Fundamental Study on the Three-phase Fluid Flows in Packed Beds, J. Yagi et al., Tohoku Univ.
- 2 Water Gas Reaction in Coke Gasification with H<sub>2</sub>O, Y. Kashiwaya et al., Hokkaido Univ.
- 3 Study on Sintering Process from the View Point of Sinter Cake Structures Analyzed by CT, T. Inazumi et al., Nippon Steel Corp.
- 4 Development and Application of CaO Separated Granulation Method for Iron Ore Sintering, T. Kawaguchi et al., Sumitomo Metal Ind., Ltd.
- 5 Improvement of Material Discharging Characteristics from Bell-less Top Bunker of Blast Furnace, S. Miyagawa et al., Kawasaki Steel Corp.
- 6 Development of Operation Technique of Blast Furnace with Coal Injection Rates, M. Shimizu et al., Kobe Steel, Ltd.
- 7 Control of Heat Transfer in the Blast Furnace Hearth, K. Tanaka et al., Nisshin Steel Co., Ltd.
- 8 Process Characteristics of Oxygen Blast Furnace with Preheating Gas Injection into Shaft, M. Matsuura et al., NKK Corp.

## Steelmaking

- 9 Determination of the Gibbs Free Energies of Alkaline Earth Oxides, N. Sano, The Univ. Tokyo
- 10 Removal Rates of Tin and Antimony from High Carbon Iron Melt by Vaporization, K. Mori et al., Kyushu Univ.
- 11 Mass Transfer from a Solid Body Immersed in a Cylindrical Bath with Bottom Gas Injection, M. Iguchi et al., Osaka Univ.

- 12 Fundamental Study on Scrap Melting under Gas Bubbling Condition, M. Kawakami et al., Toyohashi Univ. Tech.
- 13 Feeding Technologies of Raw Materials and Their Influence on Operation of Smelting Reduction Process with Thick Layer of Slag, H. Katayama et al., Nippon Steel Corp.
- 14 Integrated Clean Steel Production System Covering Processes from Hot Metal Pretreatment to Vacuum Degasser, K. Yamaguchi et al., Kawasaki Steel Corp.
- 15 VOD Operations of Low Carbon and Nitrogen Ferritic Stainless Steels in Nippon Metal Industry Co., Ltd., H. Yoshimura et al., Nippon Metal Ind. Co., Ltd.
- 16 Solidification and Deformation of Surface Layer of Cast Alloys, E. Niyama et al., Tohoku Univ.
- 17 Development of High Speed Casting Technology with an Experimental Continuous Casting Machine, T. Kanazawa et al., Sumitomo Metal Ind., Ltd.
- 18 Technical Development of Horizontal Continuous Casting for Seamless Pipes, I. Ibuki et al., NKK Corp.
- 19 Continuous Casting Technologies of Special Steel, H. Nakata et al., Daido Steel Co., Ltd.
- 20 Construction and Operation of Direct Current Electric Arc Furnace, H. Sugihara et al., Nakayama Steel Works, Ltd.

## Automation of Iron and Steelmaking

- 21 Introduction of Artificial Intelligence Technology to the Ironmaking Process, S. Kubo et al., Nippon Steel Corp.
- 22 Automated Operation in Steelmaking Shop of Kakogawa Works, S. Ishiguro et al., Kobe Steel, Ltd.

## 中国

## Ironmaking

- 1 The Effect of Coke-Ore Mixed Charging on the Reduction and Aerodynamics Characteristics in Softening-melting Zone, Yang Zhaoxiang et al., Northeast Univ, Tech.
- 2 Technology Improvement of No. 1 BF in Baoshan Steel Complex, Gu Jiacheng et al., Baoshan Steel Com.
- 3 Construction and Commissioning of New No. 3 Blast Furnace at WISCO, Zhang Shourong et al., Wuhan Iron and Steel Corp.
- 4 The Influence of a Little Amount Additive of Barium Salt on the Properties of (TiO<sub>2</sub>)-bearing B. F. Slag, Qi Baoming et al., Univ. Sci. Tech. Beijing
- 5 The Relation between Ion-group Structure and Desulphurizing Capacity of Titaniferrous Slag, Diao Risheng, Pan Zhihua Iron & Steel Res. Inst. MMI
- 6 The Research Work and Application of Oxy-coal Lanch for Blast Furnace PCI Process, Yang Tianjun et al., Univ. Sci. Tech. Beijing

## Steelmaking

## Physical Chemistry of Steelmaking

- 7 Interaction Coefficients in Multicomponent Metallic Solutions at Constant Activity and Constant Concentration, Wei Shoukun, Univ. Sci. Tech. Beijing
- 8 A Study on the La-β-Alumina Solid Electrolyte for La Sensor, Xu Xiuguang et al., Northeast Univ. Tech.
- 9 Investigation into Solubility of Barium in Liquid Iron and Effect of Third Elements on it, Zhang Chenming et al., Univ. Sci. Tech. Beijing

## Steelmaking Processes

- 10 Model Study on Impact Stress Distribution along the Bottom of the Combined Blown Converter, Tsai Chihpeng et al., Inst. Chem. Met. Acad. Sinica

- 11 The Practice of Adding Coal to the Converter for Steelmaking, Ke Ling and Wang Shutang, Inst. No. 1 Steel Plant of Shougang
- 12 Development of Combined Blowing Process with Post-combustion Lance for the Refining of Semi-steel, Yang Wenyuan et al., Central Iron & Steel Re. Inst.
- 13 System Analysis & Modelling of the 18T AOD Process, Li Shiqi et al., Univ. Sci. Tech. Beijing
- 14 Investigation in Quality of Heavy Rotor Steels, Jiang Menglong and Yu Meifu, Shanghai Heavy Mach. Plant

## Pretreatment of Hot Metal and Ladle Metallurgy

- 15 Investigation on Pretreatment of Hot Metal with Medium Phosphorus Content and Smelting Process in Converter, Zhang Rong Feng, et al., Baotou Steel and Rare Earth Co.
- 16 Kinetic Study on the Reduction of Tungsten Oxide in Slag by Si in Molten Steel, Chen Weiqing et al., Univ. Sci. Tech. Beijing
- 17 Production of Super-cleanliness Bearing Steel by Electric Arc Furnace with Ladle Metallurgy, Zhou Deguang et al., Res. Inst. Daye Steel Works

## Solidification

- 18 Hot Ductility of Nb Microalloy Steel in the Continuous Casting Process, Lu Zhen et al., Central Iron & Steel Res. Inst.
- 19 The Progress of Continuous Casting in Baosteel, Chen Weidu and Zhang Yueping, Baoshan Iron and Steel Comp.

## Automation of Iron and Steelmaking

- 20 A Process Endpoint Prediction Model for Stainless Steelmaking with Electric Arc Furnace, Sun Yanguang et al., Automation Res. Inst. Ministry of Met. Ind.

5. 会議用語 論文発表, 討議とも英語です。(通訳はつきません)

6. 参加申込 (1) 参加資格 本会正会員に限ります。  
 (2) 募集人員 80名(先着順)  
 (3) 申込期限 1992年9月11日(金)  
 (4) 参加費 企業内正会員 20,000円/名  
 大学・公共機関内の正会員 15,000円/名  
 (事前に配布するテキスト代とパーティ代を含みます)

## (5) 申込

所定の申込用紙に必要事項を記入し, 返信用封筒(宛先を明記し, 62円切手を添付のこと)と共に下記宛にお送り下さい。所定の申込用紙は, 下記へご連絡いただければ送付致します。

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なお, 申込者には, 10月20日頃までに結果をお知らせ致します。参加費は当日お支払い下さい。