

中国金属学会

金字〔2024〕115号

关于召开“第九届亚洲钢铁大会”暨“2024年氢冶金国际研讨会”的通知

各有关单位：

由中国金属学会（CSM）、印度金属学会（IIM）、日本铁钢协会（ISIJ）和韩国金属学会（KIM）共同主办，湖南钢铁集团有限公司、河钢集团、巴西矿冶公司（CBMM|Niobium）和中冶京诚工程技术有限公司协办的“第九届亚洲钢铁大会”（Asia Steel 2024）暨“2024年氢冶金国际研讨会”（ISHM2024）将于2024年9月4-7日在湖南省长沙市召开。

“亚洲钢铁大会”是由CSM、IIM、ISIJ和KIM在2000年联合发起，每三年举办一次的系列国际会议，曾于2000、2003、2006、2009、2012、2015、2018和2021年成功地在中国北京、印度 Jamshedpur、日本 Fukuoka、韩国 Busan、日本 Yokohama、印度 Bhubaneswar 和韩国 Gyeongju 举办。“氢冶金国际研讨会”是由中国金属学会和河钢集团共同主办，曾于2023年在河北崇礼召开。

恰逢第九届亚洲钢铁大会在中国召开，氢冶金是当前国际钢铁界共同关注的热点课题，目前已收到来自世界21个国家及地区的550余篇

Joo Hyun Park	Hanyang University, 韩国
Seshadri Seetharaman	Tata Steel, 印度
	KTH Royal Institute of Technology, 瑞典
Hiroyuki SHIBATA	Tohoku University, 日本
Hiroshi UTSUNOMIYA	Osaka University, 日本
王国栋	中国工程院院士 东北大学, 中国
王新华	河钢集团邯钢公司, 中国

技术委员会

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田志凌 中国金属学会

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刘征建 潘建 沈学静 孙彦广 田京雷 汪水泽 王万林 汪净
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钟金红 河钢集团

赵 欣 中国金属学会

二、大会特邀报告

1. Li Wang, China BaoWu Steel Group Corporation, China

Presentation Title: Developments and outlook of ultra high strength steel sheets for automobile in China

2. Uttam Singh, TATA Steel, India

Presentation Title: De-carbonizing the steel industry: India's perspective

3. Hiroshi Nogami, Tohoku University, Japan

Presentation Title: Toward Carbon-Neutral Steelmaking, Japanese Challenges

4. Seongyeon Kim, POSCO, Korea

Presentation Title: Hydrogen and the Decarbonization Solutions of Steel Processes and Products at POSCO

5. Johannes Schenk, Montanuniversitaet Leoben, Austria

Presentation Title: Ongoing Efforts and Challenges in Achieving Carbon-neutral Steel Production

6. Rafael Mesquita, CBMM, Brazil

Presentation Title: Modern Steel: Niobium Driving the Future in High-Performance Materials

三、技术分会设置

1. Fundamentals of Steels (基础理论研究)
2. Ironmaking and Related Technologies (炼铁及相关技术)
3. Hydrogen Metallurgy Technologies (氢冶金技术)
4. Steelmaking and Continuous Casting (炼钢及连铸)
5. Rolling and Heat Treatment (轧钢及热处理)
6. Near Net-Shape Production (近终形制造)
7. Steel Products and Application (钢铁产品及应用)
8. Digitization and Intelligence of Process (过程数字化及智能化)
9. Resources and Environment (资源与环保)
10. Analysis and Characterization (分析与表征)

注：部分技术分会重点报告见附件 1

四、报到日期、地点和会议地点

报到时间：2024 年 9 月 3 日 14:00-20:00

报到地点：长沙国际会议中心一层

会议地点：长沙国际会议中心三层

地址：湖南省长沙市长沙县国展路 108 号

联系电话：0731-86805555

五、会议日程

时间	活动安排		
	上午	下午	晚上
9 月 3 日 (周二)	——	注册	注册 欢迎酒会
9 月 4 日 (周三)	开幕式 大会特邀报告 墙报及展览	技术分会报告 墙报及展览	招待会

9月5日 (周四)	技术分会报告 墙报及展览	技术分会报告 墙报及展览	---
9月6日 (周五)	技术分会报告 墙报及展览	技术分会报告 墙报及展览	---
9月7日 (周六)	技术参观：湖南钢铁集团公司（如计划参加的代表，请在在线注册时进行选择，参观费用： 350元/人 ，包含往返交通及午餐，参观名额有限，先到先得）		
地点：长沙国际会议中心			

六、会议语言及文集

本次会议工作语言为英语。

由技术委员会评审通过的所有扩展摘要（Extended Abstract）将收录在由冶金工业出版社编辑出版的会议文集中。

七、会议注册、缴费和报名截止时间

（一）会议注册：

请国内参会代表登录会议网站 www.asiasteel2024.com，选择简体中文页面后进行在线注册。完成在线注册后，请按照以下注册费标准及缴费日期缴纳注册费，注册截止日期**9月1日**。

（二）注册费标准：

代 表 身 份	7月25日前	7月25日后
论文作者及会员单位代表	2800元/人	3300元/人
非会员单位代表	3500元/人	4000元/人
学生代表	1500元/人	1800元/人

注：①每份会议注册费限发表一篇文章；②凡7月25日前未交注册费的论文作者，不予发表论文及安排交流；③学生凭本人学生证注册。

会议注册费包含：会议交流、会议文集、会议期间午餐、晚餐欢迎酒会、招待会及茶歇等

（三）缴费方式及发票信息填写：

1、在线支付（仅限于9月1日前）：

完成在线注册的代表可登录个人中心，选定注册类型后，选择“在线支付”方式，再选择您的发卡银行，按照网页提示进行注册费的网上支付操作。

2、银行汇款（仅限于9月1日前）：

您也可通过银行汇款缴纳会议注册费。完成在线注册的代表进行汇款时请务必在备注处填写“亚钢会+注册号+注册人姓名”。汇款用银行信息如下：

账户名称：中国金属学会

开户银行：中国工商银行股份有限公司北京国家文化与金融合作示范区金街支行

账 号：0200000709089116848

完成汇款后，烦请登录个人中心，选定注册类型后，选择“银行汇款”支付方式，上传汇款凭证，以便确认缴费情况。

3、现场缴费（仅支持银行卡）：

参会代表也可在会议期间（即2024年9月3-6日）现场注册并缴纳会议注册费。为提高现场报到的效率及方便参会代表，鼓励代表提前报名、提前交费。

4、发票信息填写：

缴费成功后，需要开具发票的代表，请登录会议网站，进入“个人中心”，在“个人代表注册”栏目下选择发票类型并填写发票信息。

（四）现场报到及资料领取：

会议报到时，请您向工作人员提供注册确认信或注册编号，以领取名卡和餐票及会议资料。

提前缴费的代表，将根据代表注册信息开具电子发票，电子发票将在确认收款后一周内开具并直接发送到注册邮箱，现场缴费的代表，电子发票将在会后开具。

八、会议住宿地点推荐和费用

第九届亚洲钢铁大会将于9月4-7日在长沙国际会议中心召开，

为做好大家的住宿、出行等后勤保障工作，会议秘书处经过多次现场实地考察，综合酒店环境等多方面因素对比后，现推荐3家入住的酒店（距离会场步行约5分钟，详见附件2），详情如下：

酒店名称	大床	双床
长沙环球融创施柏阁酒店 (5星级酒店)	500元/天 (含早餐)	500元/天 (含早餐)
长沙会展诺富特酒店 (4星级酒店)	450元/天 (含早餐)	450元/天 (含早餐)
长沙会展宜必思尚品酒店 (经济型酒店)	350元/天 (含早餐)	350元/天 (含早餐)

如需要预定以上会议推荐酒店，请登录会议网站 www.asiasteel2024.com，选择简体中文页面后点击“住宿安排”栏目，通过微信小程序直接预订，房间数量有限，先到先得，建议尽早做好行程安排，提前预订住宿酒店。

九、会议秘书处

中国金属学会国际联络部

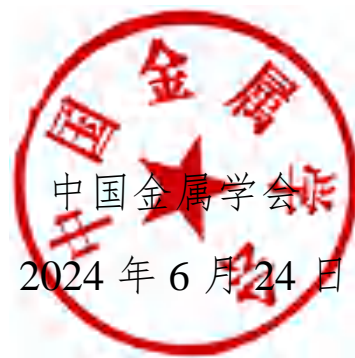
赵欣 刘芳 010-65211205 13439682609 13810162102

E-mail: asiasteel2024@csm.org.cn

会议网站: www.asiasteel2024.com

附件1: 部分技术分会重点报告

附件2: 会议地址及乘车路线



附件 1:

部分技术分会重点报告 (截止日期 2024 年 6 月 26 日, 按照姓氏排序)

1. Paulo Santos Assis, UFOP: Federal University of Ouro Preto, Brazil

Presentation title: to be determined

2. Junfang Bao, China BaoWu Steel Group Corporation Limited, China

Presentation title: Current status and prospects of Baowu coking technology

3. Frank Barbaro, University of Wollongong, Australia

Presentation title: to be determined

4. Geoff Brooks, Swinburne University of Technology, Australia

Presentation title: to be determined

5. Moo-Eob Choi, POSCO, Korea

Presentation title: to be determined

6. Hao Chen, Tsinghua University, China

Presentation title: Flash annealing of advanced high strength steels

7. Mansheng Chu, Northeastern University, China

Presentation title: Research progress of hydrogen-based shaft furnace technology

8. Jung-Wook Cho, POSTECH, Korea

Presentation title: Solidification of Fe-Cu alloy to enhance both the mechanical strength and electric conductivity by controlling heterogeneity structure

9. Alberto Conejo, University of Science and Technology Beijing, China

Presentation title: H2 Reduction and Carbidization of Fe₂O₃ with Pure CH₄

10. Nikhil Dhawan, IIT Roorkee, India

Presentation title: Hydrogen reduction of low grade iron ores

11. Hongbiao Dong, University of Leicester, UK

Presentation title: Data-Analytic Framework for Implementing Industry 4.0 in Steelmaking

12. Tadashi Furuhashi, Tohoku University, Japan

Presentation title: Fundamental principles for alloy design of surface hardened steels by nitriding

13. Min Gan, Central South University, China

Presentation title: Key Technologies for Producing High Purity And High Value Iron-Based Materials by The Hydrogen Reduction Method

14. Si Gao, Kyoto University, Japan

Presentation title: Strain localization behavior in a 304 type stainless steel having fine microstructures

15. Wen-Tong Geng, Zhejiang Normal University, China

Presentation title: Mystery resolved: The composition of bcc Cu alloy precipitates in bcc Fe

16. B. P. Gautham, TCS Research, Tata Consultancy Services, India

Presentation title: Accelerating product development to intelligent operations in the steel industry with emerging digital technologies

17. Hiroto Goto, JFE Steel Corporation, Japan

Presentation title: Influence of thickness profile after sizing press on width profile at head and tail portions of slab

18. Peimin Guo, Central Iron & Steel Research Institute, China

Presentation title: Difficulties and Countermeasures of Pure Hydrogen Reduction Technology

19. Lei Guo, University of Science and Technology Beijing, China

Presentation title: Hydrogen-based reduction characteristics of iron ore fines and related industrialization progress

20. Muxing Guo, Katholieke Universiteit Leuven, Belgium

Presentation title: Interactions Between Alumina Inclusions at the Liquid Iron/Argon Gas Interface: Role of Contact Line Undulation

21. Defu Guo, Hunan LY Steel, China

Presentation title: Research and practice on high efficiency production technology of wide strip hot rolling for many varieties quality steel in Hunan LY Steel

22. Govind S. Gupta, Indian Institute of Science, India

Presentation title: Modelling of hydrogen reduction of iron oxides in a shaft furnace

23. Danilo Guzela, USIMINAS, Brazil

Presentation title: Best Practices to Minimize Center Line Segregation of Sour Service Steel Plates

24. Zhanli Guo, Sente Software Ltd., UK

Presentation title: AGE HARDENING OF MARAGING STEELS – PHYSICALLY-BASED MODELLING VS MACHINE LEARNING

25. Miyuki Hayashi, Tokyo Institute of Technology, Japan

Presentation title: Relationship between structures and thermophysical and thermochemical properties on silicate melts containing fluoride

26. Xing Han, HBIS Materials Technology Research Institute, China

Presentation title: Comprehensive utilization technology of vanadium titanium magnetite based on hydrogen metallurgy

27. Liangyuan Hao, HBIS Group, China

Presentation title: Research on utilization technology of hydrogen metallurgy raw materials

28. Yoonuk Heo, Pohang University of Science and Technology, Korea

Presentation title: Grain boundary precipitation and brittle fracture behaviors in austenitic Fe-Mn-Al-C lightweight steels

29. Heung Nam Han, Seoul National University, Korea

Presentation title: Hole Expansion Failure of Steel Sheets

30. Chang-Ching Ho, KATEC R &D COPORATION, Taiwan, China

Presentation title: The net-zero carbon emissions approach and practice of steel industry

31. Tom Honeyands, Newcastle University, Australia

Presentation title: Laboratory Electric Smelting of Australian Hematite Goethite Hydrogen DRI

32. Jun Hong, Nanjing Iron and Steel, China

Presentation title: Research progress in the production of large thickness steel by continuous casting slab

33. Jose Maria Ibabe, CEIT, Spain

Presentation title: Microalloying with Nb: metallurgical process for sustainable industrial solutions

34. Kazuhiko IWAI, Hokkaido University, Japan

Presentation title: Application of electromagnetic fields to high temperature process

35. Kazuhira Ichikawa, JFE Steel Corporation, Japan

Presentation title: CO₂ Reduction Technology in the Blast Furnace Process for Achieving Carbon Neutrality

36. Shuhei Irie, JFE Steel Corporation, Japan

Presentation title: Estimation of Changes in Content and Characteristics of Mold Flux during Continuous Casting

37. Sohn IL, Yonsei University, Korea

Presentation title: Is artificial intelligence really intelligent in steel processing?

38. Xiaofang Jiang, China BaoWu Steel Group Corporation Limited, China

Presentation title: to be determined

39. Zhengyi Jiang, University of Wollongong, Australia

Presentation title: to be determined

40. Zengbao Jiao, The Hong Kong Polytechnic University (PolyU), Hong Kong, China

Presentation title: Synergistic alloying effects and nanoscale co-precipitation in ultrahigh-strength maraging steels

41. Feng Jin, SINOSTEEL MECC, China

Presentation title: Technology & Engineering of Hydrogen-Based Shaft Furnace Direct Reduction

42. Namhyun Kang, Pusan National University, Korea

Presentation title: Ti/N ratio and Nb in shipbuilding steels and their coarse-grained heat affected zone

43. Youn-Bae Kang, Pohang University of Science and Technology, Korea

Presentation title: Evolution of Oxide Inclusions in Ti-added Al-killed Ultra-Low C Steel

44. Yonghee Kim, Hyundai Steel, Korea

Presentation title: Decarbonizing ironmaking process and technologies at Hyundai Steel

45. Dohun Kim, POSCO, Korea

Presentation title: to be determined

46. Peter Langenberg, IWT-Solutions AG, Germany

Presentation title: Opportunities provided by application of modern fine grain steel for steel structure in offshore wind facing the >15MW class of turbines

47. Joonho LEE, Korea University, Korea

Presentation title: Inclusion Control in front of Solid-Liquid Interface

48. Guangqiang Li, Wuhan University of Science and Technology, China

Presentation title: Hydrogen reduction of Oolitic high-phosphorus iron ore and phosphorus removal by melting separation

49. Kejiang Li, University of Science and Technology Beijing (USTB), China

Presentation title: Thermodynamic Strategy for Hydrogen-Based Direct Reduction Shaft Furnace to Achieve a Higher Efficiency

50. Menglong Li, HBIS Group, China

Presentation title: Standard system and technical path design of low carbon emission steel in HBIS

51. Xiaobing Li, HBIS Group, China

Presentation title: Production Practice of Key Technologies for Zero Reforming of Coke Oven Gas at Zhangxuan Technology

52. Jian Li, China Baowu Group. China

Presentation title: Technical route and Progress of Hydrogen Metallurgy in China BAOWU

53. Chengjun Liu, Northeastern University, China

Presentation title: to be determined

54. Zhengjian Liu, University of Science and Technology Beijing, China

Presentation title: Progress of blast furnace ironmaking technology in China

55. Liming Lu, CSIRO, Australia

Presentation title: to be determined

56. Xionggang Lu, Shanghai University, China

Presentation title: Basic Theoretical Research on Hydrogen Metallurgy

57. Haiwen LUO, University of Science and Technology Beijing, China

Presentation title: Revisit of bake hardening mechanism: Influence of baking on tensile properties of press hardening steels

58. Hiroyuki Matsuura, Tokyo University, Japan

Presentation title: In-site observation of non-metallic inclusions during the solidification of molten steel

59. Dipak Mazumdar, Indian Institute Of Technology Kanpur, India

Presentation title: Process Modelling In Steelmaking: Past, Present And Future

60. Jiayi Ma, Shougang Group, China

Presentation title: New 6 Stands Tandem Mill for high Silicon Steel Rolling -- Idea and Practice

61. Suvorov Mikhail, NLMK, Russia

Presentation title: Minimum possible coke rate for normal BF operation

62. Goro Miyamoto, Tohoku University, Japan

Presentation title: Quantitative characterization and prediction of solute segregation at α -Fe grain boundary

63. Matthias Militzer, University of British Columbia, Canada

Presentation title: Microstructure Design of Green Steel

64. Kota MORIYA, JFE Steel Corporation, Japan

Presentation title: Utilization of Carbon Recycling for Carbon Neutralization of Direct Reduction Process

65. Masoud Moshtaghi, LUT University, Finland

Presentation title: Design of Hydrogen Embrittlement Resistant High Strength Steels

66. S S Mohanty, Essar Minmet Limited, India

Presentation title: to be determined

67. Samik Nag, Tata Steel Limited, India

Presentation title: Tata Steel's efforts towards Net Zero

68. Ricardo Nolasco, CBMM, Brazil

Presentation title: Challenges on Microstructure Control during Seamless Pipe Production

69. Ko-ichiro OHNO, Kyushu University, Japan

Presentation title: Effect of hydrogen-reduced microstructure on softening behavior of iron ore agglomerates under high temperature loading conditions

70. Dauter Oliveira, Vale, Brazil

Presentation title: Performance of Vale's briquette under rich H₂ in Blast Furnace and Direct Reduction

71. Jian Pan, Central South University, China

Presentation title: to be determined

72. Joohyun Park, Hanyang University, Korea

Presentation title: Reoxidation of molten steel in secondary refining and continuous casting processes: Influence on steel cleanliness

73. Chunsu Park, DONGKUK STEEL R&D Center, Korea

Presentation title: Development of digitalization and intelligence of long products rolling

74. Jitendra Patel, International Metallurgy Ltd., UK

Presentation title: Supporting the transition to a low-carbon economy with the development and application of low-emission high strength structural steels

75. Sudipta Patra, IIT BHU, India

Present Affiliation: Assistant Professor, Metallurgical Engineering, IIT(BHU), Varanasi, India

76. Jian Pan, Central South University, China

Presentation title: to be determined

77. Martin Pei, SSAB AB, Sweden

Presentation title: Transformation to Fossil Free Steel with the HYBRIT Technology

78. Manish M Pande, IIT Bombay, Mumbai, India

Presentation title: Deoxidizer-oxygen equilibria in steel in the high concentration range

79. Yana Qie, North China University of Science and Technology, China

Presentation title: Formation of Primary Slag and Carburizing behavior of Metal Iron in Cohesive zone of Hydrogen-rich Blast Furnace

80. Radhakanta Rana, Tata Steel, The Netherlands

Presentation title: Novel Bainitic Steels for Hot Rolled Applications

81. Gour Gopal Roy, IIT Kharagpur, India

Presentation title: Inclusion evolution of LCAK steel using mischmetal

82. Indradev Samajdar, Indian Institute of Technology Bombay, India

Presentation title: Controlled Thermomechanical Processing of Steel and Elastic-Plastic Strain Gradients

83. Yansong Shen, University of New South Wales, Australia

Presentation title: Modelling of multiphase reacting flows and net zero steel industry innovations

84. Fengman Shen, Northeastern University, China

Presentation title: H-C-O system mass balance and chemical equilibrium diagram and fundamental thermodynamic theory study of carbon deposition in the system

85. Douglas Stalheim, DGS Metallurgical Solutions, Inc., USA

Presentation title: Key Contributing Metallurgical Componets to Successful, Cost Effective Production of Steel Products and their Applications

86. Marcos Stuart, CBMM, Brazil

Presentation title: Examples of niobium microalloyed steels toward the future of carbon neutrality

87. John Speer, Colorado School of Mines, USA

Presentation title: Nb in Microalloyed Automotive Bar and Forging Steels

88. Sang-Han Son, POSCO, Korea

Presentation title: Characteristics of bio-carbon and its utilization in ironmaking process

89. Toshihiro Tsuchiyama, Kyushu University, Japan

Presentation title: Strengthening of ferritic steels by alloying element through grain boundary segregation

90. Pelo Uranga, CEIT, Spain

Presentation title: Impact of diverse Direct Strip Processing Mill Layouts on the Hot Rolling Metallurgy of Nb Microalloyed Steels

91. Basov Vadim, NLMK, Russia

Presentation title: Influence of MgO in slag and slag basicity CaO/SiO_2 and $(\text{CaO}+\text{MgO})/\text{SiO}_2$ on

NLMK BF6 and BF7 operation

92. Geoff Wang, The University of Queensland, Australia

Presentation title: Insight into the heat and mass transfer of iron ore reduction in hydrogen shaft furnace

93. Wanlin Wang, Central South University, China

Presentation title: Strategy for the optimization of continuous casting mold technology

94. Jie Wang, Masteel, China

Presentation title: Product development and application of Masteel heavy hot-rolled H-sections

95. Menghuai Wu, Montanuniversitaet Leoben, Austria

Presentation title: Advanced Modeling of Macrosegregation in Continuous Casting with the Effect of Electromagnetic Stirring (EMS)

96. Zhangwei Wang, Central South University,, China

Presentation title: Strong and ductile lightweight compositionally complex steels via dual-nanoprecipitation

97. Zhenjia Xie, University of Science and Technology Beijing, China

Presentation title: Breaking cryogenic temperature strength-ductility trade-off via deformation omega phase transition and nano-twinning in low carbon low alloy bainitic steel

98. Jian Xu, Chongqing University, China

Presentation title: Synergistic Enhancement and Morphological Transformation Induced by Hydrogen in the Gaseous Interfacial Reduction of Iron Oxide

99. Takuya YAMAMOTO, Osaka Metropolitan University, Japan

Presentation title: Numerical investigation and automatic design of metallurgical process with an aid of simulation and optimization methodology

100. Jer-Ren Yang, National Taiwan University, Taiwan, China

Presentation title: Overview of the striking features of microstructure in steels

101. Yongxiang Yang, Technische Universiteit Delft, TU Delft, The Netherlands

Presentation title: Hydrogen Metallurgy in European Steelmaking Industry: Challenges and Opportunities

102. Zhinan Yang, Yanshan University, China

Presentation title: Accelerating nano-bainite transformation based on microstructure control

103. Jian Yang, Shanghai University, China

Presentation title: Oxide Metallurgy Technology for Improving Weldability of HSLA Steel Plates

104. Congcong Yang, Central South University, China

Presentation title: Hydrogen-based direct reduction behavior of iron ore pellets with iron grades ranging from 59%-68%

105. Deguchi Yoshihiro, The University of Tokushima, Japan

Presentation title: to be determined

106. Aibing Yu, Monash University, Australia

Presentation title: Development of Hydrogen Blast Furnace for Ironmaking

107. Guo Yuan, Northeastern University, China

Presentation title: to be determined

108. Jianliang Zhang, University of Science and Technology Beijing, China

Presentation title: Progress and Prospect of Low-carbon Ironmaking Technology and Hydrogen Metallurgy Process

109. Fuming Zhang, Shougang Group Co., Ltd., China

Presentation title: Research on Some Problems of Modern Blast Furnace Hydrogen Metallurgical Technology

110. Lifeng Zhang, North China University of Technology, China

Presentation title: Prediction on the Three Dimensional Spatial Distribution of the Number Density, Size and Composition of Non-metallic Inclusions in Steel Continuous Casting Products

111. Yongjie Zhang, Tohoku University, Japan

Presentation title: Interphase Precipitation of Nano-sized Alloy Carbides in Low Carbon Microalloyed Steels

112. Wei Zhang, Wuhan University of Science and Technology, China

Presentation title: Mathematical model and industrial validation of blast furnace ironmaking with hydrogen injecting process

113. Yu Zhang, Shasteel Group, China

Presentation title: A novel strategy to fabricate thick ultra large-heat input butt weld joint by synergetic use of wire, arc and steel plate

114. Yuyou ZHAI, Primetals Technologies, Austria

Presentation title: THROUGH-PROCESS OPTIMIZATION

115. Zhilong Zhao, MCC Capital Engineering & Research Incorporation Limited (CERI), China

Presentation title: CERI's Innovation and Engineering Practice in Green & Low Carbon Hydrogen Metallurgy Technology

116. Frank (Shaoliang) Zhong, World Steel Association

Presentation title: Global Steel Decarbonization Progress and Development of Hydrogen-based Steelmaking Technologies

117. Miaoyong Zhu, Northeastern University, China

Presentation title: Prediction and Control of Surface Fluctuation in Slab Continuous Casting Mold Based on AI and Metallurgical Big Data

118. Deqing Zhu, Central South University, China

Presentation title: Impact of Basicity on Hydrogen-Rich Gas-Based Direct Reduction of Fired Pellets

119. Jianwei Zhu, Ansteel, China

Presentation title: Research and Pilot Plant building of Hydrogen-based Iron Ore Direct Reduction with Fluidized Bed in Ansteel, China

120. Qingshan Zhu, Institute of Process Engineering, Chinese Academy of Sciences, China

Presentation title: Fluidized Bed Hydrogen Direct Reduction: History and Perspective

121. Wenhao Zhou, Xiangtan Iron and Steel, China

Presentation title: New Progress in Key Technology Development and Engineering Application of Low Temperature Steel Plate in XISC

122. Zulfiadi Zulhan, Institut Teknologi Bandung, Indonesia

Presentation title: Reconsidering Hydrogen Plasma Reactor as a Sustainable Solution for Green Steel Production

高铁：

可以选择地铁 2 号线/4 号线直达:长沙高铁南站—地铁光达站(长沙国际会展中心)，仅一站地距离，从 4 号口出站穿过国展路斑马线步行 500 米到达。

机场：

乘车 25 分钟到达，乘坐机场磁悬浮快线至磁悬浮高铁站，再乘坐地铁 2、4 号线至光达站，从 4 号口出站穿过国展路斑马线步行 500 米到达。