

CONTENTS

Committees	2
Floor Map	4
Schedule At-A-Glance	5
Plenary Session	7
Parallel Sessions	
A1 Physical Metallurgy and Properties	8
A2 Physical Metallurgy and Properties	10
A3 Physical Metallurgy and Properties	12
B1 Performance, Safety and Application	13
B2 Performance, Safety and Application	14
C1 Process Technologies for High Quality	15
C2 Process Technologies for High Quality	16
C3 Process Technologies for High Quality	17
D1 Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.	18
D2 Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.	20
D3 Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.	21
E1 Pipeline Steel	22
E2 High-Strength Structural Steel	23
Poster Sessions	25
Authors Index	27
Important Notice to Participants	33



Committees

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The Chinese Society for Metals (CSM)

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Nanjing Iron & Steel Co., Ltd.

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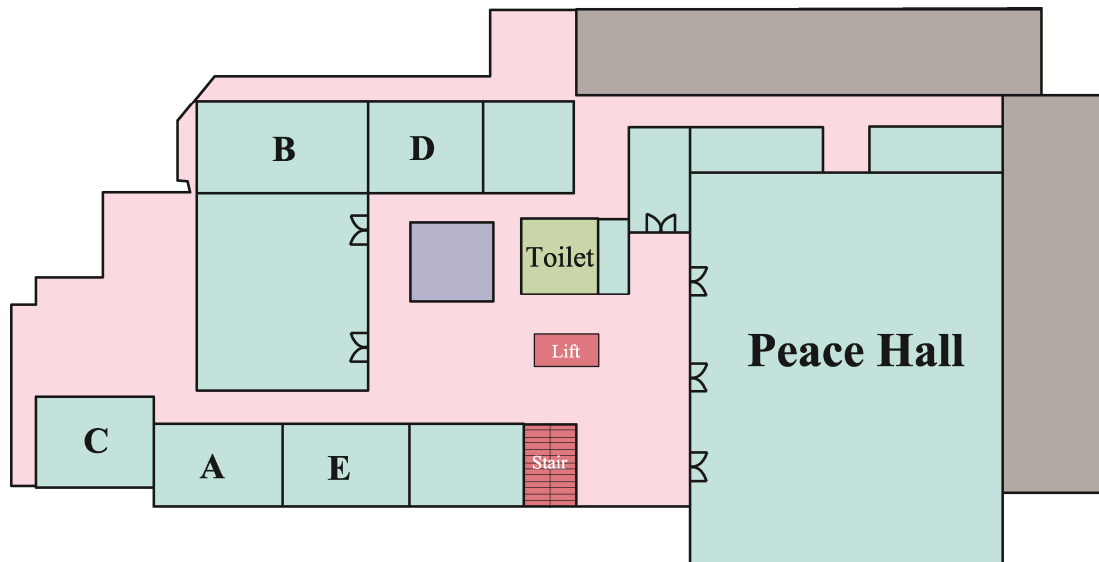
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Floor Map



Second Floor of Zijin Building



Schedule At-A-Glance

Plenary Session 8:30-12:30

Peace Hall (2nd Floor) of International Conference Hotel Nanjing

AM, 3 November 2025	Chair: Chengjia Shang
	Chiars: Aimin Guo, Caifu Yang

Parallel Sessions

Room A, B, C, D and E (2nd Floor) of International Conference Hotel Nanjing

	Room A	Room B	Room C	Room D	Room E
PM, 3 November	A1 (14:00-17:35) Physical Metallurgy and Properties Chairs: Wenjun Wang, Jose Maria Rodriguez Ibabe	B1 (14:00-17:05) Performance, Safety and Application Chairs: Kaiming Wu, Hardy Mohrbacher	C1 (14:00-17:55) Process Technologies for High Quality Chairs: Wei Xu, Hualong Li	D1 (14:00-17:50) Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc. Chairs: Jian Gong, Keiji Ueda	E1 (14:00-17:40) Pipeline Steel Chairs: Roney Lino Xueda Li
AM, 4 November	A2 (8:30-11:55) Physical Metallurgy and Properties Chairs: Yongjie Zhang, Jer-Ren Yang	B2 (8:30-11:10) Performance, Safety and Application Chairs: Zhenjia Xie, Wenhao Zhou	C2 (8:30-11:40) Process Technologies for High Quality Chairs: Xiaoan Yang, Jian Yang	D2 (8:30-11:55) Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc. Chairs: Heung Nam Han, Shuang Xie	E2 (8:30-11:50) High-Strength Structural Steel Chairs: Haiwen Luo, Xiaobing Luo

	Room A	Room B	Room C	Room D	Room E
PM, 4 November	A3 (14:00-16:40) Physical Metallurgy and Properties Chairs: Matthias Militzer, Guangrui Jiang	—	C3 (14:00-17:00) Process Technologies for High Quality Chairs: Dan Guo, Lingyu Wang	D3 (14:00-17:00) Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc. Chairs: Chang-Ching Ho, Jun Fu	—



Plenary Session

Monday, 3 November 2025, GMT+8 (Beijing) 8:30-12:30 Peace Hall (2nd Floor) of International Conference Hotel Nanjing	
Chair: Chengjia Shang, University of Science & Technology Beijing, China	
8:30-8:50	Opening & Welcome Address
8:50-9:30	The Development for Advanced HSLA Steels in China in Low Carbon Age Zhiling Tian, The Chinese Society for Metals, China
9:30-10:10	Different Approach to the CO₂ Burden of Steel Harry Bhadeshia, University of Cambridge, UK
10:10-10:30 Break	

Chairs: Aimin Guo, CITIC Metal Co., Ltd., China Caifu Yang, Central Iron and Steel Research Institute Co., Ltd., China	
10:30-11:10	Niobium-Driven Innovations in Advanced Steels Rafael Mesquita¹, Jose Bacalhau¹, Caio Pisano¹, Roney Lino¹, Wenjun Wang² 1. CBMM, Brazil 2. CITIC Metal Co., Ltd., China
11:10-11:50	Current Status of Development of High-Performance Steel Products and Welding Technologies for Construction of Large-Scale Structures Keiji Ueda, JFE Steel Corporation, Japan
11:50-12:30	Vanadium in Modern Steels: A Versatile Microalloying Element for Enhanced Strength, Toughness, and Wear Resistance Yu Li , David N. Crowther, Vanitec Ltd., UK

A1

Physical Metallurgy and Properties

Monday, 3 November 2025, GMT+8 (Beijing)	
14:00-17:35	
Room A (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Wenjun Wang, CITIC Metal Co., Ltd., China	
Jose Maria Rodriguez Ibabe, CBMM and Ceit, Spain	
14:00-14:25	Keynote Dual-Phase Steel Strengthened by Interphase-Precipitated TiC Nanocarbides Jer-Ren Yang , National Taiwan University, Taiwan, China
14:25-14:45	Invited Research on Microstructure Design and Mechanical Properties of Ultra-Fine Bainitic Steel Based Self-toughening of Ferrite Zhinan Yang^{1,2} , Zhuangqin Liang ² , Jianjun Wang ² , Xiaojun Gao ² , Fucheng Zhang ¹ 1. North China University of Science and Technology, China 2. Yanshan University, China
14:45-15:05	Invited Microstructural Understanding and Novel Strengthening Strategies in Low-Carbon Bainitic Steels Carlos Capdevila , D. de Castro, F. G. Caballero, D. San Martín, Centro Nacional de Investigaciones Metalúrgicas (CENIM), Spain
15:05-15:25	Invited Interphase Precipitation of Nano-sized Alloy Carbides in Low Carbon Microalloyed Steels Yongjie Zhang , Goro Miyamoto, Tadashi Furuhashi, Tohoku University, Japan
15:25-15:45 Break	
15:45-16:10	Keynote Material Characteristics and Applications of New Generation High-Manganese Austenitic Steel for Low-Temperature Containers Tao Liu , Nanjing Iron & Steel Co., Ltd., China
16:10-16:35	Keynote Fully Restoring the Damaged Ductility of H-charged Medium Mn Steel via Pulsed Current Haiwen Luo¹ , Bin Hu ¹ , Alexander Gramlich ² , Ulrich Krupp ² 1. University of Science and Technology Beijing, China 2. Steel Institute, RWTH Aachen University, Germany
16:35-16:55	Invited Discontinuous Yielding Mechanism in Nb-alloyed Extra Low Carbon Steels Bin Hu , Jinru Luo, Haiwen Luo, University of Science and Technology Beijing, China

16:55-17:15	<i>Invited</i> Machine Learning Model for Mechanical Property Prediction of Bainitic Rail Steel Based on Inclusion and Microstructure Digitization Zhenjia Xie, University of Science and Technology Beijing, China
17:15-17:35	Ni as a Substitution of Mn in Steel: A Dilatometric Study of Phase Transformation Hao Mei^{1,2,3}, Kangying Zhu⁴, Roxane Massion^{2,3}, Olivier Bouaziz^{2,3}, Xing Lu¹ 1. University of Lorraine LEM3 Laboratory (France), Dalian Jiaotong University, France 2. Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux (LEM3), CNRS, Université de Lorraine, Arts et Métier Paris Tech, France 3. LABORatoire d'EXcellence DAMAS, Université de Lorraine, France 4. ArcelorMittal Research and Development Voie Romaine-BP30320, France



A2

Physical Metallurgy and Properties

Tuesday, 4 November 2025, GMT+8 (Beijing) 8:30-11:55 Room A (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Yongjie Zhang, Tohoku University, Japan Jer-Ren Yang, National Taiwan University, Taiwan, China	
8:30-8:55	Keynote Modelling microstructure evolution in line pipe steels Matthias Militzer¹, Warren Poole¹, Minyu Tseng¹, Joshua Swan¹, Sabyasachi Roy¹, Ruth Birch¹, Smit Patel¹, Michael Gaudet² 1. The University of British Columbia, Canada 2. Evraz Inc. NA, Canada
8:55-9:15	Invited Extended CALPHAD Approach in Materials Modelling – Moving towards Virtual Processing Simulation Zhanli Guo, Jianan Hu, Jean-Philippe Schillé, Sente Software Ltd., UK
9:15-9:35	Invited Improving the Strength-toughness of Bainitic Microalloyed Steel through Nb Microalloying and Multi-stage Cooling Process Ning Zhang¹, Guojun Zhu², Youxu Zhao², Zhilin Wang³, Bo Jiang¹, Yazheng Liu¹, Chunjing Wu¹ 1. University of Science and Technology Beijing, China 2. Hubei Tri-Ring Auto Axle Co., Ltd., China 3. Xining Special Steel Co., Ltd., China
9:35-9:55	Data-driven Predictions of Retained Austenite Content and Yield Strength and Elucidation of the Sliding Wear Performance of Carbide-free Bainitic Steels Bo Gao, Central Iron and Steel Research Institute Co., Ltd., China
9:55-10:15 Break	
10:15-10:35	Invited Nb in the Production of HSLA Steels Based on Scrap and EAF Jose Maria Rodriguez Ibabe¹, Felipe Bastos², Lino Roney², Wenjun Wang³ 1. CBMM and Ceit, Spain 2. CBMM, Spain 3. CITIC, China
10:35-10:55	Invited Strength-Plasticity Synergy and Underlying Mechanisms in 1200 MPa-Grade Low-Density Steels Tingping Hou, Wuhan University of Science and Technology, China

10:55-11:15	<i>Invited</i> Achieving High Strength and High Ductility of Dual-Phase Steel via Alternating Lamellar Microstructure Gang Niu, Chao Ding, Mengjie Wang, Aicheng Liu, Huibin Wu, University of Science and Technology Beijing, China
11:15-11:35	Study on the Modeling for Phase Transformation in Steels Baochun Zhao, Iron and Steel Research of Angang Group, China
11:35-11:55	Effects of Carbon Concentration and Transformation Temperature on Incomplete Transformation and Crystallography of Low-carbon Bainitic Steel Binbin Wu¹, Li Li¹, Chengjia Shang² 1. Harbin Engineering University, China 2. University of Science and Technolohgy Beijing, China



A3

Physical Metallurgy and Properties

Tuesday, 4 November 2025, GMT+8 (Beijing)	
14:00-16:40	
Room A (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Matthias Militzer, The University of British Columbia, Canada Guangrui Jiang, Shougang Group, China	
14:00-14:20	<i>Invited</i> Reduced Operational Costs and Lower Embodied Carbon for Commodity Grade Steels Using Ultra Low Niobium (ULNb) Alloying Solutions Jitendra Patel, International Metallurgy Ltd. and CBMM Technology Suisse S.A., UK
14:20-14:40	<i>Invited</i> Nb in Structural Steels in the Past Quarter Century in China Houxin Wang, CITIC Metal Co., Ltd., China
14:40-15:00	Elucidation of the Mechanism Governing Electrochemically-Induced Martensitic Transformation Junyoung Chae ¹ , Guihyung Lee ¹ , Hyukjae Lee ¹ , Yeonggeun Cho ² , Dameul Jeong ³ , Young-Kyun Kwon ³ , In-Ho Jung ¹ , Kim Kim ² , Heung Nam Han ¹ 1. Seoul National University, Korea 2. Pohang University of Science and Technology, Korea 3. Kyung Hee University, Republic of Korea, Korea
15:00-15:20	Atomistic Insights into Thermal Stability of MC Carbides in Steels Jiongfei Zhao, Xiang Luo, Shichao Liu, Hao Chen, Key Laboratory for Advanced Materials of Ministry of Education, School of Materials Science and Engineering, Tsinghua University, China
15:20-15:40 Break	
15:40-16:00	<i>Invited</i> Strengthening Scenarios in Heavy-Gaged Plate Steel Using Niobium, Molybdenum, Nickel and Boron Alloying Hardy Mohrbacher, NiobelCon BV, Belgium
16:00-16:20	<i>Invited</i> New Insights from Crystallography into the Effect of Boundaries on Hydrogen Embrittlement Susceptibility of a 1000 MPa Grade Heavy Gauge High-Strength Low-Alloy Steel Jingliang Wang ¹ , Rui Zhong ¹ , Jingxiao Zhao ¹ , Zhenjia Xie ¹ , Peng Han ² , Hua Wang ² , Chengjia Shang ^{1,2,3} 1. University of Science and Technology Beijing, China 2. State Key Laboratory of Metal Material for Marine Equipment and Application, China 3. Guangdong Laboratory for Materials Science and Technology (Yangjiang Advanced Alloys Laboratory), China
16:20-16:40	Enhanced Thermal Stability of Interphase-Precipitated Carbides via a Multicomponent Alloying Strategy Shichao Liu, Yong Yang, Haokai Dong, Hao Chen, Tsinghua University, China

B1 Performance, Safety and Application

Monday, 3 November 2025, GMT+8 (Beijing) 14:00-17:05 Room B (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Kaiming Wu, Wuhan University of Science and Technology, China Hardy Mohrbacher, NiobelCon BV, Belgium	
14:00-14:25	<i>Keynote</i> Theory and Technology for Synergistic Enhancement of Toughness, Corrosion Resistance, Fatigue Resistance, and Weldability in Microalloyed HSLA Steel Kaiming Wu , Wuhan University of Science and Technology, China
14:25-14:45	<i>Invited</i> Effect of Rolling Process on the Microstructure and Properties of Heavy Weathering Bridge Steel Q550qENH Huibing Fan , Qiang Cui, Chunxia Tang, Haoran Liu, Linheng Chen, Nanjing Iron & Steel Co., Ltd., China
14:45-15:05	In-situ Measurement of Microstructure Evolution with Laser Ultrasonics Minghui Lin , Matthias Militzer, University of British Columbia, Canada
15:05-15:25	Research on Brittle Fracture Arrest of High Strength Thick Walled Line Pipes Weiwei Zhang ^{1,2} , He Li ^{1,2} , Cheng Bi ³ , Peng Wang ^{1,2} , Qiang Chi ^{1,2} , Hongyuan Chen ^{1,2} , Lei Wang ^{1,2} , Xiongiong Gao ^{1,2} , Hui Feng ^{1,2} , Ke Yun ³ 1. State Key Laboratory of Oil and Gas Equipment, China 2. CNPC Tubular Goods Research Institute, China 3. Xi'an Special Equipment Inspection Institute, China
15:25-15:45 Break	
15:45-16:05	Selection of Heat Treatment Process for Advanced High Strength Medium Manganese Automobile Steel under Low-carbon Background Zhiyuan Wan ^{1,2} , Ruifeng Dong ¹ , Yongfa Lu ^{1,3} 1. Inner Mongolia University of Technology, China 2. The Academy of Mechanical Engineering, Shandong Huayu University of Technology, China 3. Shanxi Diesel Engine Industry Co., Ltd., China
16:05-16:25	Enhancing the Resistance to Hydrogen Embrittlement in Bainitic Steel via Grain Refinement, Dislocation Density Reduction, and Retained Austenite Stability Improvement Zhuanqin Liang ¹ , Zhinan Yang ² , Fucheng Zhang ² 1. Yanshan University, China 2. North China University of Science and Technology, China
16:25-16:45	Influence of Retained Austenite on Hydrogen-Assisted Delayed Failure in Bainitic Steel Kai Xia , Lin Cheng, Zemin Xu, Chengyang Hu, Kaiming Wu, Wuhan University of Science and Technology, China
16:45-17:05	Effect of Microalloying System and Hot Rolling Parameters on the Strength of low Carbon Steels Aleksei Dagman , Novolipetsk Steel (NLMK), Russia

B2

Performance, Safety and Application

Tuesday, 4 November 2025, GMT+8 (Beijing) 8:30-11:10 Room B (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Zhenjia Xie, University of Science & Technology Beijing, China Wenhao Zhou, Hunan Hualing Xiangtan Iron and Steel Co., Ltd., China	
8:30-8:50	Effect of Ni on the Transformation Behavior of Undercooled Austenite in Si-Mn-Cr-B System High-Strength Spring Steel Hongwei Zheng , Ye Jiang, Yang Wang, Nanjing Iron and Steel Co., Ltd., China
8:50-9:10	Study on the Impact of Alloying Elements on Hydrogen Trapping at two Orientations of NbC/α-Fe Interfaces Zemin Xu , Lin Cheng, Kai Xia, Chengyang Hu, Kaiming Wu, Wuhan University of Science and Technology, China
9:10-9:30	New insights into the Aging Embrittlement Mechanism of 30Cr2Ni4MoV Steel Yongfeng Zheng , Xiaofeng Hu, Haichang Jiang, Institute of Metal Research, Chinese Academy of Sciences, China
9:30-9:50	Effect of Mo Addition on Microstructure and Mechanical Properties of Chemical Heterogeneous Q&P Steels Chao Zhang ^{1,2} , Zhaodong Li ¹ , Yanguang Cao ¹ , Hao Zhang ² , Dezhen Yang ^{2,4} , Xingwang Cheng ^{2,3} , Zhiping Xiong ^{2,3} 1. Central Iron and Steel Research Institute Co., Ltd., China 2. National Key Laboratory of Science and Technology on Materials under Shock and Impact, China 3. Beijing Institute of Technology, China 4. Luoyang ship Material Research Institute, China
9:50-10:10 Break	
10:10-10:30	Unraveling the Significance of Microstructure and Reversed Austenite on Mechanical Property and Hydrogen Embrittlement in Ni-contained High-strength Steel Zhixian Peng , Jing Liu, Feng Huang, Shiqi Zhang, Wuhan University of Science and Technology, China
10:30-10:50	Microstructure and Performance of Ti Deoxidized Low Carbon Steel Zhu Yan , Chao Wang, Guo Yuan, Northeastern University, China
10:50-11:10	Effect of Niobium Microalloying on Microstructure and Properties of Ultra-high-strength Wire Steels Zijing Gan ¹ , Chao Lu ¹ , Jianchun Cao ¹ , Zhenchuan Wang ³ , Yongqing Zhang ⁴ , Chaoyong Xu ¹ , Aimin Guo ⁴ , Qilong Yong ² 1. Kunming University of Science and Technology, China 2. China Iron & Steel Research Institute Group, China 3. Shagang Group, China 4. CITIC Metal, China

C1 Process Technologies for High Quality

Monday, 3 November 2025, GMT+8 (Beijing) 14:00-17:55 Room C (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Wei Xu, Northeastern University, China Hualong Li, Institute of Research of Iron and Steel, Shasteel Group, China	
14:00-14:25	Keynote Multi-scale Modelling of Austenite Conditioning and Decomposition in Microalloyed Low-carbon Steels Matthias Militzer , University of British Columbia, Canada
14:25-14:50	Keynote AI for Science, Is Material Ready? Hang Su¹ , Changchang Wang ² , Xuandong Wang ³ 1. Central Iron and Steel Research Institute Co., Ltd., China 2. Beijing MatDao Technology Co., Ltd., China 3. China Iron and Steel Research Institute Group, China
14:50-15:10	Invited Electromagnetic Metallurgy and its Key Artificial Intelligent Technologies Xiaoming Liu , Northeastern University, China
15:10-15:30	Invited Deep Learning-Based Steel Microstructure Analysis with Limited Sample Data Chunguang Shen , Hebei University of Technology, China
15:30-15:50 Break	
15:50-16:15	Keynote Integrated Microstructure and Mechanism-guided Multimodal Machine Learning for Advanced Steel Design Wei Xu , Northeastern University, China
16:15-16:35	Physics-Informed Machine Learning for Predicting Strength and Flow Behavior of Steels Shasha Zhang , Changqing Shu, Guojin Xiang, Zhengjun Yao, Nanjing University of Aeronautics and Astronautics, China
16:35-16:55	Predicting Austenite Yield Strength in Steels by using Artificial Intelligence Isaac Toda Caraballo , Carlos Garcia-Mateo, Nacional de Investigaciones Metalúrgicas (CENIM), Spain
16:55-17:15	Multi-scale Simulation and Machine Learning-based Toughness Prediction of HSLA Weld CGHAZ Zhixing Wang , Yangjiang Alloy Materials Laboratory, China
17:15-17:35	Knowledge-Infused Graph Neural Networks for Interpretable Creep Life Prediction and Alloy Design Decision Support Chengbo Pan , Wuzhen Laboratory, China
17:35-17:55	Numerical Model of Scale Thickness of Wire Rod for High-strength Steel Cord and its Application Dayong Guo^{1,2} , Xiang Liu ³ , An Che ³ , Hang Gao ^{1,2} , Hang Pan ^{1,2} , Hongliang Wang ³ 1. State Key Laboratory of Metallic Materials for Marine Equipment and Applications, China 2. Ansteel Iron and Steel Research Institute, China 3. Wire rod plant of Ansteel, China

C2

Process Technologies for High Quality

Tuesday, 4 November 2025, GMT+8 (Beijing) 8:30-11:40 Room C (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Jian Yang, Shanghai University, China Xiaoan Yang, Nanjing Iron & Steel Co., Ltd., China	
8:30-8:55	<i>Keynote</i> Improvement of the Weldability of HSLA Steel Plates Jian Yang, Shanghai University, China
8:55-9:15	Development of 2000 MPa Hot-Rolled Martensitic Narrow Strip Steel for Roll Forming Applications Xiaoan Yang¹, Zhou Wang², Junwen Huang², Jun Fu², Linheng Chen², Jianfeng Wang² 1. Nanjing Iron & Steel Co., Ltd., China 2. NISCO, China
9:15-9:35	Recent Development in Manufacturing Process and Weldability Investigations of Heavy Steel Plates for Offshore Wind Applications Eugene GOLI-UGLU, NLMK DanSteel, Denmark
9:35-9:55	Cracking Causes and Process Optimization in Cold Forging of 16MnCr5 Gear Shafts Ziqiang Guo, Zhixing Zhang, Xuan Qin, Hailong Wang, Nanjing Iron & Steel Co., Ltd., China
9:55-10:15 Break	
10:15-10:40	<i>Keynote</i> Development of High-Strength Steel Products for Automotive Applications Based on Twin Roll Strip Casting Process Hualong Li, Zhijian Zhang, Tengfei Li, Qingxiao Feng, Institute of Research of Iron and Steel, Shasteel Group, China
10:40-11:00	Recent Development and Application of Niobium Microalloying in High-Strength Structural Steels Yongqing Zhang, Aimin Guo, Xiangtao Deng, Qiangjun Yan, Peimao Fu, Roney Lino, CITIC Metal Co., Ltd., China
11:00-11:20	Optimization of Descaling Parameters for Enhanced Surface Integrity in Low-Alloy Steels Dan Guo, Yi Fan, Jiaying Cai, Jiang Gao, Nanjing Iron & Steel Co., Ltd., China
11:20-11:40	Development of Series Ultra-strong Hot Stamping Steel for the MCCR Multi-mode Full Continuous Casting and Rolling Production Line Jiangtao Liang¹, Dawei Zhang¹, Baoliang Xiao¹, Kun Liu¹, Jun Jiang², Jixin Li² 1. Shougang Research Institute of Technology, Shougang Group Co., Ltd., China 2. Shougang Jingtang Iron and Steel United Co., Ltd., China

C3 Process Technologies for High Quality

Tuesday, 4 November 2025, GMT+8 (Beijing) 14:00-17:00 Room C (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Dan Guo, Nanjing Iron & Steel Co., Ltd., China Lingyu Wang, Northeastern University, China	
14:00-14:20	<i>Invited</i> Microstructural Evolution and Mechanical Performance of Cr-Mo-V Steels Subjected to Various Heat Treatment Conditions Chih-Yuan Chen, Yu-Shan Chang, Yo-Lun Yang, National Taipei University of Technology, Taiwan, China
14:20-14:40	<i>Invited</i> Enhancing the Oxidation Resistance of a Coating-free Press Hardend Steel with Pre-treatments Lingyu Wang, Northeastern University, China
14:40-15:00	<i>Invited</i> Synergistic Enhancement of Strength-Ductility-Toughness in 2 GPa Steel via Tailoring Martensitic Topological Structure Yunjie Li, Northeastern University, China
15:00-15:20	Effect of Intercritical Annealing on Tensile Properties of Cr Alloying Medium-Mn Steel Shengrui Su, Pengfei Gao, Jingjing Wang, Bingquan Ai, Yuqiao Zhao, Ansteel Beijing Research Institute Co., Ltd., China
15:20-15:40 Break	
15:40-16:00	<i>Invited</i> Effects of Austenite Reversion Behavior on Retained Austenite after Subsequent Austempering or Quenching & Partitioning Treatments Xianguang Zhang, Yali Zhang, Zihang Guan, Shouli Feng, Haoran Han, University of Science and Technology Beijing, China
16:00-16:20	<i>Invited</i> Research and Application of Heat Treatment Products in Lianyuan Steel Ning Liu, Liang Liang, Hunan Valin Lianyuan Iron & Steel Co., Ltd., China
16:20-16:40	Effect of Tempering Temperature on Microstructure, Strength-Toughness and Wear Properties of High-Strength Wear-Resistant Steel NM400 Gang Chen, Zaiwei Jiang, Jianfeng Jin, Yadong Wang, Hao Ruan, Jinsheng Wang, Nanjing Iron & Steel Co., Ltd., China
16:40-17:00	Study on SHCCT Diagram and Microstructure/Mechanical Properties of Welded Joints in 1000 MPa-Grade Low-Carbon Bainite-Martensite Steel Xingjian Ma, Zhenyu Fei, Jingjie Wang, Yi Fan, Wei Li, Nanjing Iron & Steel Co., Ltd., China

D1 Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.

Monday, 3 November 2025, GMT+8 (Beijing)	
14:00-17:50	
Room D (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Jian Gong, Shougang Group, China Keiji Ueda, JFE Steel Corporation, Japan	
14:00-14:25	Keynote Hole Expansion Failure of Automotive Advanced High Strength Steel Sheets Heung Nam Han ¹ , Seung-Ho Lee ¹ , Deunbom Chung ¹ , Woojin Cho ¹ , Jewoong Lee ² , Sung-Il Kim ² 1. Seoul National University, Korea 2. POSCO Technical Research Laboratories, Korea
14:25-14:45	Invited A New 2.0GPa Hydrogen Embrittlement Resistance Optimal Steel Ziliu Xiong , CITIC Metal Co., Ltd., China
14:45-15:05	Development High-Strength Medium Manganese Steels for Automotive Industry Mattia Franceschi ¹ , Carlos Garcia Mateo ² , Radhakanta Rana ³ 1. Centro Nacional de Investigaciones Metalúrgicas (CENIM), Spain 2. Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), MATERIALIA Research Group, Spain 3. Tata Steel, the Netherlands
15:05-15:25	Invited Solution and Precipitation Behavior of Nb in Medium and High-Carbon Bar and Wire Products Yongqing Zhang ¹ , Chengjia Shang ² , Jianchun Cao ³ , Felipe Bastos ⁴ , Pello Uranga ⁵ 1. CITIC Metal Co., Ltd., China 2. University of Science & Technology Beijing, China 3. Kunming University of Science and Technology, China 4. Companhia Brasileira de Metalurgia e Mineração (CBMM), Brazil 5. Universidad de Navarra, Spain
15:25-15:45 Break	
15:45-16:05	Invited Microstructure and Corrosion Resistance of Two Different Zn-Al-Mg Coatings Guangrui Jiang ¹ , Ting Shang ¹ , Datao Liu ¹ , Yun Han ^{1,2} 1. Shougang Group, China 2. Beijing Key Laboratory of Green Recyclable Process for Iron & Steel Production Technology, China
16:05-16:25	Invited A Study on Nb-containing Q&P 1180 Steel and Its Hydrogen Embrittlement Shuang Xie , Yong Zhong, Li Wang, Research Institute of Baosteel, China

16:25-16:45	Engineering Carbide-Free Bainitic Steels with High Silicon for Superior Strength and Toughness Carlos Garcia Mateo¹, Radhakanta Rana², Lucia Morales-Rivas³, Jose A. Jimenez³ 1. Centro Nacional de Investigaciones Metalúrgicas (CENIM), Spain 2. Tata Steel, the Netherlands 3. MATERIALIA-Steel Research Group, Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), Spain 174
16:45-17:05	Metallurgical Functionalities of Microalloys during Annealing of Cold Rolled Automotive Steel Hardy Mohrbacher, Caio Pisano, NiobelCon BV, Belgium
17:05-17:25	A Novel Design for Advanced High Strength Steel with High Hole Expansion Based on Tailored Properties of Automobile Steel Chunqing Lin^{1,2}, Xin Xu^{1,2}, Fanzhi Meng³, Zhipin Hu⁴, Rendong Liu^{1,2}, Ruiting Jiang^{1,2} 1. State Key Laboratory of Metal Material for Marine Equipment and Application, China 2. Technology Center of Angang Steel Co., Ltd., China 3. Hot Strip Mill of Angang Steel Co., Ltd., China 4. Cold Rolling Mill of Angang Steel Co., Ltd., China
17:30-17:50	Effect of Microalloying on the Structure and Properties of TRIP-aided Multi Phase Steel Aleksei Bykov^{1,2}, Sergey Yashchuk¹, Ruslan Adigamov¹, Philip Mezin¹ 1. JSC Severstal Management, Russia 2. Cherepovets State University, Russia



D2

Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.

Tuesday, 4 November 2025, GMT+8 (Beijing) 8:30-11:55 Room D (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Heung Nam Han, Seoul National University, Korea Shuang Xie, Research Institute of Baosteel, China	
8:30-8:55	Keynote Deep Cryogenic Treatment-Induced Microstructural Evolution and Hydrogen Embrittlement in X80 Steel Mujun Long , Chongqing University, China
8:55-9:15	Invited Progress in R&D of AnSteel Marine Engineering Steels and New Materials Wenbin Li ^{1,2} , Tian Hu ² , Yu Hu ² , Jiaan Li ^{1,2} , Xiaohang Wang ^{1,2} 1. State Key Laboratory of Metal Materials for Marine Equipment and Applications, China 2. Angang Steel Co., Ltd., China
9:15-9:35	Effect of Hot Rolling Parameters on the Formation of Interphase Precipitates and Properties at Room and Low Temperatures in High-strength Low-alloy Steels Sergey Yashchuk ¹ , Yakov Masyagin ¹ , Aleksey Bykov ^{1,2} 1. JSC Severstal Management, Russia 2. Cherepovets State University, Russia
9:35-9:55	Effects of Heat Treatment on Hydrogen Embrittlement Sensitivity of Line Pipe Steel in High-Pressure Hydrogen Environment Qian Zhao ^{1,2} , Bing Wang ² , Ba Li ² , Aigeng Fei ¹ , Shujun Jia ² , Xianjin Sun ¹ , Qingyou Liu ² 1. Jiangyin Xingcheng Special Steel Works Co., Ltd., China 2. Central Iron and Steel Research Institute, China
9:55-10:15 Break	
10:15-10:35	Invited Metallurgical and Processing Strategy for Successful Production of Heavy Gauge Structural Plate with Low Temperature Toughness Requirements Douglas Stalheim , DGS Metallurgical Solutions, Inc., USA
10:35-10:55	Invited Research on the Development and Application of 1000 MPa Grade High Strength Hydroelectric Steel Wenhao Zhou , Qing Gao, Hunan Hualing Xiangtan Iron and Steel Co., Ltd., China
10:55-11:15	ESR of Hollow HSLA steel Billets for Power Generating Industry Pipes Manufacturing Medovar Lev , Stovpchenko Ganna, Tianjin Heavy Industries Research & Development Co., Ltd., China
11:15-11:35	Study on the Influence of Residual Elements on HC420LA Yuqiao Zhao ¹ , Pengfei Gao ¹ , Xin Xu ² , Xuming Liu ¹ , Shengrui Su ¹ , Bingquan Ai ¹ , Junsheng Wang ¹ 1. Ansteel Beijing Research Institute Co., Ltd., China 2. Angang Steel Company Limited, China
11:35-11:55	Research and Practice of Sulfur Content Control of Ultra-low Sulfur Steel Qiang Zhang , AnSteel Group, China

D3 Products for the Automotive, Energy, Infrastructure and Maritime Industry, etc.

Tuesday, 4 November 2025, GMT+8 (Beijing) 14:00-17:00 Room D (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Chang-Ching Ho, KATEC R&D Corporation, Taiwan, China Jun Fu, Nanjing Iron & Steel Co., Ltd., China	
14:00-14:20	<i>Invited</i> Microstructure Characterization of SM570 Steel Plate and Exploration of Its Mechanical Property Improvement by Adding Appropriate Amounts of Alloying Elements Chang-Ching Ho¹, Shinghoa Wang², Jerren Yang², Pohan Chiu², Tzuching Tsao² 1. KATEC R&D Corporation, Taiwan, China 2. National Taiwan Ocean University, Taiwan, China
14:20-14:40	<i>Invited</i> Comparative Fracture Analysis of API X52M and X52MH Steels in High Pressure Hydrogen Bing Wang, Ba Li, Shujun Jia, Qingyou Liu, Central Iron and Steel Research Institute Company, China
14:40-15:00	Effect of Cooling Temperature on Strength and Microstructure of Hot Rolled S760 Steel for Industrial Applications Dmitri Sidorenko¹, M.Y. Rekha², B. Lin², B. Ehrhardt¹, E. Poliak² 1. ArcelorMittal Calvert, USA 2. ArcelorMittal Global R&D, USA
15:00-15:20	The Performance and Microstructure of 11MnNiMoDR Steel Plate for Low-temperature Pressure Vessels Lianyun Xi¹, Zhanglong Xie¹, Jie Yin¹, Junzhou Ji², Zhengyang Wu¹ 1. Nanjing Iron & Steel Co., Ltd., China 2. Yixing City Jiuzhou End Forging Co., Ltd., China
15:20-15:40 Break	
15:40-16:00	Development of GPa Grade Galvanized Multi-phase Steel Bearing Nb Bingquan Ai, Xuming Liu, Pengfei Gao, Zhiyu Geng, Jingjing Wang, Ansteel Beijing Research Institute Co., Ltd., China
16:00-16:20	Effects of Heat Treatment Processing on Microstructure and Properties of 410S+Q345R Shan Jiang, Zhouyu Zeng, Feilong Wang, Nanjing Iron & Steel Co., Ltd., China
16:20-16:40	PG5 Rail with High Mechanical Properties Applied in Heavy-haul Railway Qiang Zhang, AnSteel Group, China
16:40-17:00	Effects of Nano-precipitates on the Resistance to Hydrogen Embrittlement in High-strength Low-alloy Steels Rongjian Shi, Heng Dong, Xiaolu Pang, University of Science and Technology Beijing, China

E1

Pipeline Steel

Monday, 3 November 2025, GMT+8 (Beijing)	
14:00-17:40	
Room E (2nd Floor) of International Conference Hotel Nanjing	
Chairs: Roney Lino, CBMM, Brazil	
Xueda Li, China University of Petroleum (East China), China	
14:00-14:20	Keynote The Origin Evolution and Future of Microalloyed Linepipe Steels: Key Achievements of Over 70 Years of Technical Advances Mr. Phil Kirkwood, Mais Sobre Niobio Ltd.
14:20-14:40	Invited Development and Application Research of Heavy-Gauge X80 Steels since the Second West-East Line Yongqing Zhang, CITIC Metal Co., Ltd., China
14:40-15:00	Invited Comprehensive Research on the Modern Manufacturing and Alloy Design of Low Carbon X80 Pipes Jian Han, International Welding Technology Center, China
15:00-15:20	Role of Prior Rolled Austenite Microstructure and Niobium Precipitation on Heat Affected Zone (HAZ) Performance in API Pipe Seam and Girth Welds Douglas Stalheim, DGS Metallurgical Solutions, Inc., USA
15:20-15:40 Break	
15:40-16:00	Invited Influence of Cr Content on Corrosion Resistance of Supercritical CO ₂ Pipeline Steel Ba Li, Central Iron and Steel Research Institute Co., Ltd., China
16:00-16:20	Invited Application of Large-diameter Steel Pipe for Water Transportation Project and City Water Grid Bi Zongyue, CNPC Baoji Petroleum Pipe Industry Co., Ltd., China
16:20-16:40	Trends for Multiple Purpose Pipeline Infrastructures and Global Challenges Repurposing Vintage Pipelines (O&G, H ₂ , CO ₂ , WATER) Gregory Robert Ebel, Companhia Brasileira de Metalurgia e Mineração
16:40-17:00	Invited Analysis of Potential Influential Factors of High Grade Pipeline Steel on its Performance in Hydrogen Mr. Feng Hui, CNPC Tubular Goods Research Institute
17:10-17:20	Pipeline Development in Saudi Arabia and UAE as an Opportunity for Chinese Steel Mills Dennis Kmelnitsky, Aurohill
17:20-17:40	Invited Hydrogen-Nanoprecipitate Interactions in High-strength Micro-alloyed Pipeline Steel Huijun Li, Wuyi University, China

E2

High-Strength Structural Steel

Tuesday, 4 November 2025, GMT+8 (Beijing) 8:30-11:50 Room B (2nd Floor) of International Conference Hotel Nanjing Chairs: Haiwen Luo, University of Science and Technology Beijing, China Xiaobing Luo, Central Iron and Steel Research Institute Co., Ltd., China	
8:30-8:50	<i>Invited</i> Impact of Nb and V on Nanoprecipitate Formation in Novel Advanced Ferritic-Martensitic Steels David San-Martin¹, Vivas Javier^{2,3}, David De-Castro², Eberhard Altstadt⁴, Martin Houska⁴, Esteban Urones-Garrote⁵, Francisca G. Caballero², Marta Serrano⁶, Rebeca Hernández⁶, Carlos Capdevila² 1. CENIM-CSIC, Spain 2. Materialia Research Group, Department of Physical Metallurgy, Centro Nacional de Investigaciones Metalúrgicas (CENIM), Consejo Superior de Investigaciones Científicas (CSIC), Spain 3. LORTEK Technological Centre, Basque Research and Technology Alliance (BRTA), Spain 4. Structural Materials, Helmholtz-Zentrum Dresden–Rossendorf (HZDR), Germany 5. Centro Nacional de Microscopía Electrónica, Universidad Complutense de Madrid, Spain 6. Departamento de Tecnología, División de Materiales de Interés Energético, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Spain
8:50-9:10	<i>Invited</i> Progress in Vanadium Steel Technology in China Xuehui Chen, Central Iron and Steel Research Institute Co., Ltd., China
9:10-9:30	Study on Improving Vanadium Precipitation Rate for Vanadium Microalloyed Power Angle Steel Fu Han, Junhua Qiu, Hui Wen, Wei Deng, Nanjing Iron and Steel Co., Ltd., China
9:30-9:50	Effect of Vanadium and Nitrogen on Static Recrystallization Behavior of Vanadium Microalloyed Steel Baochun Zhao, Angang Steel Co., Ltd., China
9:50-10:10 Break	
10:10-10:30	<i>Invited</i> Progress in Ultra-high Strength and Toughness Marine Engineering Components and Their Materials Science Jiang Yin, Shanghai Bainite Chain Material Co., Ltd., China
10:30-10:50	<i>Invited</i> The New Progresses in Mechanism Research on The Role of Vanadium Micro-alloying in The Microstructure and Property Controlling of HSLA Steels Linxiu Du, Northeastern University, China

10:50-11:10	The Application of Vanadium in Heavy Hot Rolled H-section Steel Hui Chen , Magang (Group) Holding Co., Ltd., China
11:10-11:30	Research on The Hydrogen Embrittlement Resistance of Hot-stamping Steel by V Microalloying Mengjie Gao , University of Science and Technology Beijing, China
11:30-11:50	Development and Application of Vanadium Microalloyed Hot-Rolled High-Strength Steel at Pangang Group Kaiyu Cui , Pangang Group Co., Ltd., China



Poster Sessions

P-1	Microstructural Evolution and Modeling of Low-temperature Fatigue Response of Ultra-high Strength Eutectoid Steel Jie Zhou, Tianyin He, Yi Zhang, Libo Pan, Jiangnan University, China
P-2	Analysis of Strength Control Optimization Strategy for Heavy Plate 5Ni Steel Based on Big Data Minwen Zhang, Baoshan Iron & Steel Co., Ltd., China
P-3	Microstructure and Mechanical Properties of Cu-bearing Medium Mn Steel via Intercritical Quenching and Tempering Process Yunzi Yan, Yunbo Xu, Northeastern University, China
P-4	Analysis of Surface Crack of High Strength Austenitic Stainless Steel Continuous Casting Billet Kunyu Wang, Yu Zhang, Xiangyu Zhang, Dong Pan, Ansteel Group Beijing Research Institute Co., Ltd., China
P-5	Development of Hot-rolled Narrow Strip Steel with High-strength Sorbite Spring Steel Xuetang Ren, Nanjing Iron and Steel Co., Ltd., China
P-6	Development of a Temperature Field Simulation Platform for Ultra Fast Cooling of Medium-Thick Plates Based on the PyQt5.0 Framework Jiewen Wu, Nanjing Iron and Steel Co., Ltd., China
P-7	Study on High-Temperature Rheological Behavior of SCr420H Steel and Improvement of Bulging Segregation during the Bloom Rolling Tao Tao, Ziqiang Guo, Xin Tang, Shiping Zhang, Shuai Niu, Nanjing Iron and Steel Co., Ltd., China
P-8	Research on Key Technologies for Optimizing Processes and Enhancing Production Capacity of Thin Plates Heat Treatment Jiale An, Nanjing Iron and Steel Co., Ltd., China
P-9	Influence of Nb, V and Ti Microalloying on Microstructure and Mechanical Properties of Hot Stamping Steel Xiangyu Zhang ^{1,2} , Qin Zhe ^{1,2} , Zhang Yu ^{1,2} , Pan Dong ^{1,2} , Kunyu Wang ^{1,2} , Zhihui Li ^{1,2} 1. State Key Laboratory of Metal Materials for Marine Equipment and Application, China 2. Ansteel Beijing Research Institute Co., Ltd., China
P-10	Synergistic Regulation of NiAl Nanoprecipitates and Reversed Austenite for High Strength-Ductility Synergy in HSLA Steels: Design and Performance Optimization Qiqi Liu, Central Iron & Steel Research Institute, China

P-11	The Effect of Intercritical Quenching and Tempering Process on Yield Ratio and Microstructure in a Low Yield Ratio 890 MPa Grade HSLA Steel Chengyu Guo¹, Chunduo Dai¹, Li Gong¹, Huaxing Hou^{1,2}, Zhe Zhang² 1. Ansteel Beijing Research Institute Co., Ltd., China 2. Ansteel Iron & Steel Research Institutes, China
P-12	Research and Improvement of Machining Performance of 34CrS4 Steel for Gear Rack Dong Zhang, Haiyang Li, Nanjing Iron and Steel Co., Ltd., China
P-13	Development of Low-Temperature Resistant Hot-Rolled Galvanized High-Strength Steel Ronghua Cao^{1,2}, Guodong Zhang^{3,4}, Zaiwang Liu⁵, Libin Yang⁵, Wanding He⁵, Yun Han^{1,2} 1. Research Institute of Technology, Shougang Group Co., Ltd., China 2. Beijing Key Laboratory of Green Recyclable Process for Iron and Steel Production Technology, China 3. CITIC Metal Co., Ltd., China 4. State Key Laboratory of Metastable Materials Science and Technology, Yanshan University, China 5. Shougang Jingtang United Iron and Steel Co., Ltd., China
P-14	Research Progress on Fe-Mn-Al-C Series Lightweight High-strength Steel for Automobiles Jiahao Gu, Yungang Li, Yanfei Qi, North China University of Science and Technology, China
P-15	Development of a Prototype Steel for a New Type of Ultra-high Strength Austenitic Non-magnetic Stainless Steel Dong Pan, Yu Zhang, Xiangyu Zhang, Kunyu Wang, Ansteel Beijing Research Institute Co., Ltd., China
P-16	Effect of Electrochemical Hydrogen Charging on Precipitation in 6061 Aluminum Alloy Myeongjin Lee, Junyoung Chae, Siwhan Lee, Heungnam Han, Seoul National University, Korea
P-17	Bubble Characteristics of Porous Plugs: Impact on Bottom Blowing Performance in Steel Refining Processes Hua Huang, Quanhui Li, Bangming Qin, Nanjing Iron and Steel Co., Ltd., China
P-18	Mechanism of Tensile Property Differences Between Rectangular and Cylindrical Specimens of Low-Alloy Structural Steel and Study on Engineering Applicability Guidong Li, Fei Gao, Nanjing Iron and Steel Co., Ltd., China

Author Index

A

Aicheng Liu	11
Aigeng Fei	20
Aimin Guo	14, 16
Aleksei Bykov	19
Aleksei Dagman	13
Aleksey Bykov	20
Alexander Gramlich	8
An Che	15

B

B. Ehrhardt	21
B. Lin	21
Ba Li	20, 21, 22
Bangming Qin	26
Baochun Zhao	11, 23
Baoliang Xiao	16
Bi Zongyue	22
Bin Hu	8
Binbin Wu	11
Bing Wang	20, 21
Bingquan Ai	17, 20, 21
Bo Gao	10
Bo Jiang	10

C

Caio Pisano	7, 19
Carlos Capdevila	8, 23
Carlos Garcia Mateo	15, 18, 19
Changchang Wang	15
Chang-Ching Ho	21
Changqing Shu	15

Chao Ding	11
Chao Lu	14
Chao Wang	14
Chao Zhang	14
Chaoyong Xu	14
Cheng Bi	13
Chengbo Pan	15
Chengjia Shang	11, 12, 18
Chengyang Hu	13, 14
Chengyu Guo	26
Chih-Yuan Chen	17
Chunduo Dai	26
Chunguang Shen	15
Chunjing Wu	10
Chunqing Lin	19
Chunxia Tang	13

D

D. de Castro	8
D. San Martín	8
Dameul Jeong	12
Dan Guo	16
Datao Liu	18
David De-Castro	23
David N. Crowther	7
David San-Martin	23
Dawei Zhang	16
Dayong Guo	15
Dennis Kmelnitsky	22
Deunbom Chung	18
Dezhen Yang	14
Dmitri Sidorenko	21

Dong Pan	25, 26
Dong Zhang	26
Douglas Stalheim	20, 22

E

E. Poliak	21
Eberhard Altstadt	23
Esteban Urones-Garrote	23
Eugene GOLIOGLU	16

F

F. G. Caballero	8
Fanzhi Meng	19
Fei Gao	26
Feilong Wang	21
Felipe Bastos	10, 18
Feng Huang	14
Francisca G. Caballero	23
Fu Han	23
Fucheng Zhang	8, 13

G

Gang Chen	17
Gang Niu	11
Goro Miyamoto	8
Gregory Robert Ebel	22
Guangrui Jiang	18
Guidong Li	26
Guihyung Lee	12
Guo Yuan	14
Guodong Zhang	26
Guojin Xiang	15
Guojun Zhu	10

H

Haichang Jiang	14
Hailong Wang	16

Haiwen Luo	8
Haiyang Li	26
Hang Gao	15
Hang Pan	15
Hang Su	15
Hao Chen	12
Hao Mei	9
Hao Ruan	17
Hao Zhang	14
Haokai Dong	12
Haoran Han	17
Haoran Liu	13
Hardy Mohrbacher	12, 19
Harry Bhadeshia	7
He Li	13
Heng Dong	21
Heung Nam Han	12, 18, 26
Hongliang Wang	15
Hongwei Zheng	14
Hongyuan Chen	13
Houxin Wang	12
Hua Huang	26
Hua Wang	12
Hualong Li	16
Huaxing Hou	26
Hui Chen	24
Hui Feng	13
Hui Wen	23
Huibin Wu	11
Huibing Fan	13
Huijun Li	22
Hyukjae Lee	12
In-Ho Jung	12

I

Isaac Toda Caraballo	15
----------------------	----

J

Jean-Philippe Schillé	10
Jerren Yang	21
Jer-Ren Yang	8
Jewoong Lee	18
Jiaan Li	20
Jiahao Gu	26
Jiale An	25
Jian Han	22
Jian Yang	16
Jianan Hu	10
Jianchun Cao	14, 18
Jianfeng Jin	17
Jianfeng Wang	16
Jiang Gao	16
Jiangtao Liang	16
Jianjun Wang	8
Jiaxing Cai	16
Jie Yin	21
Jie Zhou	25
Jiewen Wu	25
Jing Liu	14
Jingjie Wang	17
Jingjing Wang	17, 21
Jingliang Wang	12
Jingxiao Zhao	12
Jinru Luo	8
Jinsheng Wang	17
Jiongfei Zhao	12
Jitendra Patel	12
Jixin Li	16
Jose A. Jimenez	19
Jose Bacalhau	7
Jose Maria Rodriguez Ibabe	10
Joshua Swan	10
Jun Fu	16

Jun Jiang	16
Junhua Qiu	23
Junsheng Wang	20
Junwen Huang	16
Junyoung Chae	12
Junyoung Chae	26
Junzhou Ji	21

K

Kai Xia	13, 14
Kaiming Wu	13, 14
Kaiyu Cui	24
Kangying Zhu	9
Ke Yun	13
Keiji Ueda	7
Kim Kim	12
Kun Liu	16
Kunyu Wang	25, 26

L

Lei Wang	13
Li Gong	26
Li Li	11
Li Wang	18
Liang Liang	17
Lianyun Xi	21
Libin Yang	26
Libo Pan	25
Lin Cheng	13, 14
Lingyu Wang	17
Linheng Chen	13, 16
Lino Roney	10
Linxiu Du	23
Lucia Morales-Rivas	19

M

M.Y. Rekha	21
------------	----

Marta Serrano	23
Martin Houska	23
Matthias Militzer	10, 13, 15
Mattia Franceschi	18
Medovar Lev	20
Mengjie Gao	24
Mengjie Wang	11
Michael Gaudet	10
Minghui Lin	13
Minwen Zhang	25
Minyu Tseng	10
Mr. Feng Hui	22
Mr. Phil Kirkwood	22
Mujun Long	20
Myeongjin Lee	26

N

Ning Liu	17
Ning Zhang	10

O

Olivier Bouaziz	9
-----------------------	---

P

Pan Dong	25
Peimao Fu	16
Pello Uranga	18
Peng Han	12
Peng Wang	13
Pengfei Gao	17, 20, 21
Philip Mezin	19
Pohan Chiu	21

Q

Qian Zhao	20
Qiang Chi	13

Qiang Cui	13
Qiang Zhang	20, 21
Qiangjun Yan	16
Qilong Yong	14
Qin Zhe	25
Qing Gao	20
Qingxiao Feng	16
Qingyou Liu	20, 21
Qiqi Liu	25
Quanhui Li	26

R

Radhakanta Rana	18, 19
Rafael Mesquita	7
Rebeca Hernández	23
Rendong Liu	19
Roney Lino	7, 16
Ronghua Cao	26
Rongjian Shi	21
Roxane Massion	9
Rui Zhong	12
Ruifeng Dong	13
Ruiting Jiang	19
Ruslan Adigamov	19
Ruth Birch	10

S

Sabyasachi Roy	10
Sergey Yashchuk	19, 20
Seung-Ho Lee	18
Shan Jiang	21
Shasha Zhang	15
Shengrui Su	17, 20
Shichao Liu	12
Shinghoa Wang	21
Shiping Zhang	25

Shiqi Zhang	14
Shouli Feng	17
Shuai Niu	25
Shuang Xie	18
Shujun Jia	20, 21
Siwhan Lee	26
Smit Patel	10
Stovpchenko Ganna	20
Sung-II Kim	18

T

Tadashi Furuwara	8
Tao Liu	8
Tao Tao	25
Tengfei Li	16
Tian Hu	20
Tianyin He	25
Ting Shang	18
Tingping Hou	10
Tzuching Tsao	21

U

Ulrich Krupp	8
--------------	---

V

Vivas Javier	23
--------------	----

W

Wanding He	26
Warren Poole	10
Wei Deng	23
Wei Li	17
Wei Xu	15
Weiwei Zhang	13
Wenbin Li	20
Wenhao Zhou	20

Wenjun Wang	7, 10
Woojin Cho	18

X

Xiang Liu	15
Xiang Luo	12
Xiangtao Deng	16
Xianguang Zhang	17
Xiangyu Zhang	25, 26
Xianjin Sun	20
Xiaoan Yang	16
Xiaofeng Hu	14
Xiaohang Wang	20
Xiaojun Gao	8
Xiaolu Pang	21
Xiaoming Liu	15
Xin Tang	25
Xin Xu	19, 20
Xing Lu	9
Xingjian Ma	17
Xingwang Cheng	14
Xiongxiong Gao	13
Xuan Qin	16
Xuandong Wang	15
Xuehui Chen	23
Xuetang Ren	25
Xuming Liu	20, 21

Y

Yadong Wang	17
Yakov Masyagin	20
Yali Zhang	17
Yanfei Qi	26
Yang Wang	14
Yanguang Cao	14
Yazheng Liu	10

Ye Jiang.....	14	Zhanli Guo.....	10
Yeonggeun Cho.....	12	Zhaodong Li.....	14
Yi Fan.....	16, 17	Zhe Zhang.....	26
Yi Zhang	25	Zhenchuan Wang.....	14
Yo-Lun Yang.....	17	Zhengjun Yao.....	15
Yong Yang.....	12	Zhengyang Wu	21
Yong Zhong	18	Zhenjia Xie	9, 12
Yongfa Lu.....	13	Zhenyu Fei	17
Yongfeng Zheng	14	Zhihui Li.....	25
Yongjie Zhang	8	Zhijian Zhang	16
Yongqing Zhang	14, 16, 18, 22	Zhilin Wang	10
Young-Kyun Kwon.....	12	Zhiling Tian.....	7
Youxu Zhao	10	Zhinan Yang	8, 13
Yu Hu	20	Zhipin Hu	19
Yu Li	7	Zhiping Xiong.....	14
Yu Zhang	25, 26	Zhixian Peng.....	14
Yun Han.....	18, 26	Zhixing Wang.....	15
Yunbo Xu	25	Zhixing Zhang	16
Yungang Li	26	Zhiyu Geng.....	21
Yunjie Li.....	17	Zhiyuan Wan.....	13
Yunzi Yan.....	25	Zhou Wang.....	16
Yuqiao Zhao	17, 20	Zhouyu Zeng.....	21
Yu-Shan Chang	17	Zhu Yan	14
		Zhuanqin Liang.....	8, 13
		Zihang Guan.....	17
		Zijing Gan.....	14
		Ziliu Xiong	18
		Ziqiang Guo	16, 25
Z			
Zaiwang Liu	26		
Zaiwei Jiang.....	17		
Zemin Xu.....	13, 14		
Zhang Yu	25		
Zhanglong Xie	21		

Important Notice to Participants

Welcome to Nanjing to attend 9th International Conference on High Strength Low Alloy Steels (HSLA Steels 2025). For the convenience of your stay in Nanjing, the following information has been provided for your reference.

Official Language

The official language of the conference is English.

1. Registration:

Time: 2 November, 14:00-20:00

Location: First Floor of International Conference Hotel Nanjing

Time: 3-4 November, 07:30-16:00

Location: Second Floor of International Conference Hotel Nanjing

Address: No. 2 Sifang Cheng, Xuanwu District, Nanjing, Jiangsu Province, China

Tel.: +86-25-84430888

2. Fee (On-site Registration):

Registration Fee	USD 550	Regular Participant
	USD 300	Student Participant
	USD 200	Accompanying Person
Additional Conference Proceedings USB	CNY 400/Copy	Payment on-site

** Note: 1. The receipt will be given at the registration desk.*

2. Students are requested to submit the copy of their student ID.

3. The following materials will be provided at registration desk:

- Name Badge
- Conference Proceedings USB
- Technical Program Book
- Ticket for Welcome Reception on 2 November
- Ticket for Banquet on 3 November
- Lunch and Supper Tickets for 3-4 November

**Notes: 1. Please wear your name badge to attend meetings and take your tickets for lunch, welcome reception and conference dinner.*

2. Please sign your name to finish your registration procedure.

3. Please hand over your poster when you register.

Conference Venue and Time

No.	Activity	Time	Venue
1	Plenary Session	Morning, 3 November	Peace Hall (2 nd Floor) of International Conference Hotel Nanjing
2	Parallel Sessions	Afternoon, 3 November and 4 November	Room A, B, C, D and E (2 nd Floor) of International Conference Hotel Nanjing
3	Exhibition and Poster Sessions	3-4 November	2 nd Floor of International Conference Hotel Nanjing

Paper Presentations

Please kindly read the Technical Program of HSLA Steels 2025 and pay attention to your presentation time. Time for plenary papers is 40 minutes including 5 minutes' discussion, for keynote papers at parallel sessions is 25 minutes including 5 minutes' discussion, for invited papers and contributed papers at parallel sessions is 20 minutes including 5 minutes' discussion.

**Notes: Please leave the business card or the short resume of presenter's at the registration desk for the introduction by the session chairmen.*

Exhibition and Poster Presentations

The Exhibition and Poster Sessions will be opened on 3-4 November at the 2nd Floor of International Conference Hotel Nanjing. If you have been noticed to give a poster presentation at HSLA Steels 2025, please stay at the 2nd Floor of International Conference Hotel Nanjing to answer the participants' questions during tea break.

Meals

- Breakfast | **Location:** At your staying hotel
- Welcome Reception (18:00-20:00, 2 November) | **Location:** At Zijin Hall (1st Floor) of International Conference Hotel Nanjing
- Banquet (18:00-20:00, 3 November) | **Location:** At Peace Hall (2nd Floor) of International Conference Hotel Nanjing
- Conference Lunch: (12:00-13:30, 3-4 November) | **Location:** At Mei & Mei Garden Restaurant (1st Floor) of International Conference Hotel Nanjing
- Conference Supper: (18:00-20:00, 4 November) | **Location:** At Mei & Mei Garden Restaurant (1st Floor) of International Conference Hotel Nanjing

Conference Policies

Badges

All attendees must wear registration badges at all times during the conference to ensure admission to

events

included in the paid fee such as technical sessions, exhibition, receptions, conference dinner, etc.

Photography Notice

By registering for this conference, all attendees acknowledge that they may be photographed by conference

personnel while at events and that those photos may be used for promotional purposes.

Audio/Video Recording Policy

Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or

copyright without the express written consent of CSM and the individual authors is strictly prohibited.

Cell Phone Use

In consideration of attendees and presenters, we kindly request that you minimize disturbances by setting all cell

phones and other devices on “silent” while in meeting rooms.

Conference Secretariat

Mr. Xin Zhao

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