

Schedule

**Registration desk will be open at 14:00-22:00 on Nov. 7 (Mon)
07:30-08:30 on Nov. 8 (Tue)**

TIME	EVENT	PLACE	INDEX
Nov. 8	08:30	The Joint Plenary Session Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)	Page 2
	12:00	Lunch Suoluo Banquet Hall (Second Floor) 杪楞宴会厅(二楼)	
	13:30	Plenary Session A Universal Room (First Floor) 环球贵宾厅(一楼)	Page 3
		Plenary Session B Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)	Page 4
	18:30	Banquet Suoluo Banquet Hall (Second Floor) 杪楞宴会厅(二楼)	
Nov. 9	08:00	Plenary Session C Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)	Page 5
		Session 1 Universal Room (First Floor) 环球贵宾厅(一楼)	Page 6
	11:30	Poster Session Piaoxiang Room and Yinghong Room (Second Floor) 飘香厅和映红厅(二楼)	Page 19
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	13:30	Poster Session Piaoxiang Room and Yinghong Room (Second Floor) 飘香厅和映红厅(二楼)	Page 19
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		Session 2 Mysterious Fruit Function Hall-Section A (Second Floor) 神秘果多功能厅 A 区(二楼)	Page 10
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		Session 4 Mysterious Fruit Function Hall-Section C (Second Floor) 神秘果多功能厅 C 区(二楼)	Page 16
	19:30	Entertainment Sanya Theater (Third Floor) 三亚环球大剧院 (三楼)	
Nov. 10	08:00	Session 1 Universal Room (First Floor) 环球贵宾厅(一楼)	Page 8
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		Session 4 Mysterious Fruit Function Hall-Section C (Second Floor) 神秘果多功能厅 C 区(二楼)	Page 17
	12:00	Lunch Suoluo Banquet Hall (Second Floor) 杪楞宴会厅(二楼)	
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Session 1: Ultrafine Grained Structures

Session 2: Physical Metallurgy of HSLA Steels

Session 3: Processes and Modeling of HSLA Steels

Session 4: Products and Applications of HSLA Steels

The Joint Plenary Session
HSLA Steels 2005 and ISUGS 2005

AM, November 8

Place: Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)

Chairmen: LI Wenxiu (The Chinese Society for Metals, China)

08:30 **Opening Speech WENG Yuqing** (President of The Chinese Society for Metals, China)

Chairmen: WENG Yuqing (The Chinese Society for Metals, China)

Michael KORCHYNSKY (STRATCOR, Inc., USA)

08:40 **LI Shijun** (Chinese Association of Iron and Steel Industry; The Chinese Society for Metals, China)
China Needs High Strength Low Alloy Steels, Microalloyed Steels, and Ultrafine Grained Steels

09:10 **Michael KORCHYNSKY** (STRATCOR, Inc., USA)
The Role of Microalloyed Steels in the Age of Explosive Growth of Steel Usage

09:40 ***Coffee Break***

10:00 **WENG Yuqing** (The Chinese Society for Metals, China)
Overview on the Theory of Deformation Induced Ferrite Transformation

10:30 **Tadashi MAKI** (Kyoto University, Japan)
Kinetics and Crystallography of Intragranular Ferrite Formed on Mns+V (C, N) Complex Precipitate in Austenite

11:00 **Anthony J. DeArdo** (University of Pittsburgh, USA)
Producing High Quality Niobium-Bearing Steels Using the CSP Process at Nucor Steel Berkeley

PM, November 8

Place: Universal Room (First Floor) 环球贵宾厅(一楼)

Chairmen: Peter D. HODGSON (Deakin University, Australia)

Setsuo TAKAKI (Kyushu University, Japan)

13:30 **Peter D. HODGSON** (Deakin University, Australia)

Grain Refinement through Controlled Thermomechanical Processing

14:00 **Setsuo TAKAKI** (Kyushu University, Japan)

Mechanical Properties of Ultra Fine Grained Iron and Steel

14:30 **Jong-Kyo CHOI** (POSCO, Korea)

Strain-Induced Dynamic Transformation in Plain Carbon Steels

15:00 **DONG Han** (Central Iron and Steel Research Institute; National Engineering Research Center of Advanced Steel Technology, China)

Deformation Induced Transformation and Microstructure Control in Steels

15:30 *Coffee Break*

15:50 **Sybrand van der ZWAAG** (Delft University of Technology, The Netherlands)

Modelling the Deformation of Ultra Fine Grained Metals Using Statistical Mechanics Concepts

16:20 **John William MORRIS** (University of California, USA)

Deformation Mechanisms in Nanoindentation of Ultrafine- and Nanograined Metals

16:50 **Kotobu NAGAI** (National Institute for Materials Science, Japan)

Advancements in Ultra-steel Projects at NIMS, Japan

Plenary Session B
HSLA Steels 2005

PM, November 8

Place: Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)

Chairmen: LU Jiangxin (Baoshan Iron and Steel Co., LTD, China)
Pascoal BORDIGNON (Companhia Brasileira de Metalurgia e Mineração, Brazil)

- 13:30 **LU Jiangxin** (Baoshan Iron and Steel Co., LTD, China)
The Development and Application of Microalloyed Steel in Baosteel
- 14:00 **Peter S. MITCHELL** (The Vanadium International Technical Committee, UK)
The Effect of Vanadium on the Microstructure and Toughness of Weld Heat Affected Zones
- 14:30 **Pascoal BORDIGNON** (Companhia Brasileira de Metalurgia e Mineração – CBMM, Brazil)
An Alloy Design Concept for Better Matching of Strength and Toughness in Pipeline Steels – Its Development and Application
- 15:00 **Wolfgang BLECK** (RWTH Aachen University, Germany)
Grain Refinement and Mechanical Properties in Advanced High Strength Sheet Steels
- 15:30 *Coffee Break*
- 15:50 **Hiroshi TAKECHI** (Fukuoka Institute of Technology, Japan)
Recent Progress in High Strength Steels for Automobile in Japan
- 16:20 **Ohjoon KWON** ((POSCO, Korea)
Manufacture and Application of Advanced High Strength Steel Sheets for Auto Parts Manufacture
- 16:50 **Debanshu BHATTACHARYA** (Mittal Steel, USA)
Developments in Advanced High Strength Steels

Plenary Session C
HSLA Steels 2005

AM, November 9

Place: Mysterious Fruit Function Hall (Second Floor) 神秘果多功能厅(二楼)

Chairmen: TIAN Zhiling (Central Iron and Steel Research Institute; National Engineering Research Center of Advanced Steel Technology, China)

Peter S. MITCHELL (The Vanadium International Technical Committee, UK)

08:00 **Jose Maria RODRIGUEZ-IBABE** (The Centro de Estudios e Investigaciones Técnicas de Gipuzkoa, Spain)

Modeling the Microstructural Evolution in HSLA Steels Produced by Thin Slab Casting and Direct Rolling

08:30 **John H. BEYNON** (The University of Sheffield, UK)

Surface Scale Evolution in the Hot Rolling of Steel

09:00 **WANG Guodong** (Northeastern University, China)

R&D of New Generation Steels

09:30 **Coffee Break**

09:50 **HE Xinlai** (University of Science and Technology Beijing, China)

The Development of 600MPa-800MPa Grade High Strength Low Carbon Bainitic Steel

10:20 **Bruno C. De COOMAN** (Ghent University, Belgium)

Nb Micro-alloyed CMnAlSiP TRIP Steel

10:50 **Giuliano BUZZICHELLI** (Centro Sviluppo Materiali, Italy)

Mathematical Modeling Design of Multi-Phase Steels for Advanced Applications

11:30 **Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)**

AM, November 9

Place: Universal Room (First Floor) 环球贵宾厅(一楼)

Chairmen: Andrew HOWE (Corus Plc Swinden Technology Centre, UK)
Nobuhiro TSUJI (Osaka University, Japan)

- 08:00 **Ilaria SALVATORI** (Centro Sviluppo Materiali, Italy) – **Keynote Speaker**
European Project on Ultrafine Grained Steels: Objectives and Results
- 08:25 **SONG Hongwei, ZHANG Junbao, SHI Bi**, et al. (Baoshan Iron and Steel Co., Ltd. China)
Ultrafine Grained Steels with Micro-, Submicro-, and Nano-Scale Grain Size
- 08:45 **Hidehiko KIMURA¹, Yoshiaki AKINIWA², Keisuke TANAKA²**, et al. (1.Nagoya University;
2.Nagoya University, Japan)
Improvement of Fatigue Properties of Ultrafine-Grained Steel by Microstructure and Texture
- 09:05 **D.A. PUMPYANSKYI¹, N.P. LYAKISHEV², M.M. KANTOR²**, et al. (1.TMK; 2.The Russian
Academy of Sciences, Russia)
Industrial Production of Linepipes from Ultra Fine-Grained Steels
- 09:25 **Andrew SMITH, Andrew HOWE** (Corus, UK)
Ultra-Fine Ferrite-Carbide Steel Developments in Corus
- 09:45 **Coffee Break**
- 10:05 **Dong Hyuk SHIN** (Hanyang University, Korea) – **Keynote Speaker**
Ultrafine Grained Steels Fabricated by Equal Channel Angular Pressing
- 10:30 **WENG Yu, WANG Zhongdong** (Benxi Iron and Steel Co., Ltd., China)
Development of High Strength Atmospheric Corrosion-resistant Steel with Ultra-fine Grain in BX Steel
- 10:50 **Masayuki WAKITA, Kaori MIYATA, Suguhiro FUKUSHIMA**, et al. (Sumitomo Metal Industries,
Ltd., Japan)
Super Short Interval Multi-pass Rolling Technology for Manufacturing Ultrafine-grained Steel Sheet
- 11:10 **SONG Liqui** (Panzhuhua Iron and Steel Company, China)
Development of Ultra-fine Grain Hot Rolling Steel Sheets in Pansteel
- 11:30 **Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)**

Session 1

Ultrafine Grained Structures

Fabrication Process, Microstructure Characterization

Coordinator: LIU Qingyou

PM, November 9

Place: Universal Room (First Floor) 环球贵宾厅(一楼)

Chairmen: SONG Hongwei (Baoshan Iron and Steel Co., Ltd. China)

Ilaria SALVATORI (Centro Sviluppo Materiali, Italy)

13:30 **Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)**

14:00 **Nobuhiro TSUJI** (Osaka University, Japan) – **Keynote Speaker**

Formation Mechanisms of Ultrafine Grained Structure in Severe Plastic Deformation of Low Carbon Steel

14:25 **LUO Zongan, QIU Yiqing, WANG Guodong**, et al. (Northeastern University, China)

A New Method of Researching Ultrafine Grained Steel—Recombination Large Deformation of Compression and Torsion

14:45 **FAN Jianwen, LI Guang, DAI Xiaoli**, et al. (Shougang Group Corporation, China)

Controlled Rolling Process for Plain Low Carbon Steel Plates with Ultra-fine Grained Ferrite

15:05 **B. L. LI, N. TSUJI, M. SUGIYAMA** (Osaka University, Japan)

Development of Ultrafine Grained Structure in High Purity Iron Deformed by ARB Process

15:25 **LI Guangqiang, LIU Jing, ZHANG Xin**, et al. (Wuhan University of Science and Technology, China)

Preparation of Nanocrystalline High-nitrogen Stainless Steel by Mechanical Alloying and SPS Technique

15:45 **Coffee Break**

16:05 **Yulia IVANISENKO** (Forschungszentrum Karlsruhe, Germany) – **Keynote Speaker**

The First Observation of Reverse Martensitic Transformation from a Novel Deformation Mechanism in Nanocrystalline Steel

16:30 **YANG Zhongmin, WANG Huimin, CHE Yanmin** (Central Iron and Steel Research Institute, China)

The Ultrafine Grained Microstructure Characteristic of Plain Low Carbon Steel by Different Process

16:50 **LIU Q.Y., DENG S.H., YANG X.J.**, et al. (Central Iron and Steel Research Institute, China)

Effects of Dissolution and Precipitation of Nb in Microalloyed Steel on Deformation Induced Ferrite Transformation (DIFT)

17:10 **Yao-zong BAO¹, Ping-guang XU¹, Yoshitaka ADACHI²**, et al. (1.Ibaraki University; 2.National Institute for Materials Science, Japan)

Grain Refinement by Continuous Dynamic Recrystallization for Martensite Steels

AM, November 10

Place: Universal Room (First Floor) 环球贵宾厅(一楼)

Chairmen: FANG HongSheng (Tsinghua University, China)

Yulia IVANISENKO (Forschungszentrum Karlsruhe, Germany)

- 08:00 **Yoshitaka ADACHI** (National Institute for Materials Science, Japan) – **Keynote Speaker**
Pre-And Post-Deformation-Induced Misorientation from the Ks or of Intergranular Bcc-Precipitates in a Ni-Cr Alloy
- 08:25 **Tadanobu INOUE¹, Jae-Young CHO², Fuxing YIN¹**, et al. (1.National Institute for Materials Science, Japan; 2.POSCO, Korea)
Effect of Shear Deformation on Microstructural Evolution of Ni-30Fe Alloy during Hot Deformation
- 08:45 **LI Guiyan¹, WANG Chunming², AO Liege¹**, et al. (1.Anshan Iron and Steel Group Corporation; 2.University of Science and Technology Beijing, China)
Study of the Character of Ultrafine-grained Structure of Pipeline Steel
- 09:05 **Jozef ZRNIK^{1,2}, Jaroslav DRNEK¹, Sergej DOBATKIN³**, et al. (1. Comtes FHT, Czech Republic; 2. Technical University of Košice, Slovak Republic; 3. Moscow Institute of Steels and Alloys, Russia)
Deformation Behaviour of Carbon Steel Subjected to Warm Severe Plastic Deformation
- 09:25 **Fugao WEI, Kaneaki TSUZAKI, Shiro TORIZUKA** (National Institute for Materials Science, Japan)
Characteristics of Hydrogen Absorption and Desorption of an Ultralow Carbon Steel with Ultrafine Grained Structure
- 09:45 **Coffee Break**
- 10:05 **K. MUKHERJEE, S. HAZRA, M. MILITZER** (The University of British Columbia, Canada)
Deformation-Induced Ferrite Transformation in Dual-Phase Steels
- 10:25 **D. JOHANNSEN¹, A. KYROLAINEN², P. J. FERREIRA¹** (1.The University of Texas at Austin; 2 Outokumpu Stainless Oy, Finland)
Martensite Reformation in Nano/Submicron Austenitic Stainless Steels
- 10:45 **DU Linxiu, XIONG Mingxian, YI Hailong**, et al. (Northeastern University, China)
Investigation on the Nanocrystallization of Steels through Deformation and Transformation
- 11:05 **ZHANG Junbao¹, LIU Yuliang², SONG Hongwei¹**, et al. (1.Baoshan Iron and Steel CO., LTD.; 2.Institute of Metal Research, Chinese Academy of Sciences, China)
Behaviors of Cementites in Medium Carbon Low Alloy Steels During Surface Nanocrystallization
- 11:25 **S. RAJASEKHARA¹, M. C. SOMANI², L. P. KARJALAINEN²**, et al. (1 .The University of Texas at Austin; 2. University of Oulu, Finland)
Role of Alloying Elements on Grain Evolution in Cold-Rolled Metastable Austenitic Stainless Steels
- 11:45 **XIE Yingjie, ZHAO Dewen, WANG Xiaowen**, et al. (Northeastern University, China)
Tests and Production of Ultrafine Grained Hot Rolled Rib Wires

PM, November 10

Place: Universal Room (First Floor) 环球贵宾厅(一楼)

Chairmen: PENG Yun (Central Iron and Steel Research Institute; National Engineering Research Center of Advanced Steel Technology, China)

Yoshitaka ADACHI (National Institute for Materials Science, Japan)

- 13:30 **FANG HongSheng** (Tsinghua University, China) – **Keynote Speaker**
Characteristics of Mn-series Bainitic Steels and its Recent Development
- 13:55 **SUN Xinjun**^{1,2}, **DONG Han**^{1,2}, **LIU Qingyou**^{1,2}, et al. (1. Central Iron and Steel Research Institute; 2. National Engineering Research Center of Advanced Steel Technology, China)
Study on Deformation Induced Ferrite Transformation by Using Dilatometric Method
- 14:15 **N. TSUCHIDA**¹, **Y. TOMOTA**², **K. NAGAI**³ (1. University of Hyogo; 2. Ibaraki University; 3. National Institute for Materials Science, Japan)
High-speed Tensile Deformation Behavior for Ultrafine-grained Steels
- 14:35 **Rongjie SONG, Dirk PONGE, Dierk RAABE** (Max-Planck-Institut für Eisenforschung, Germany)
Mechanical Properties of an Ultrafine Grained Plain C–Mn Steel
- 14:55 **LIANG Xiaokai, SUN Xinjun, LIU Qingyou**, et al. (Central Iron and Steel Research Institute, China)
The Effect of Grain Size and Temperature on Tensile Behavior of Low Carbon Microalloying Steels
- 15:15 *Coffee Break*
- 15:35 **Mahesh SOMANI, Pentti KARJALAINEN, Pasi JUNTUNEN**, et al. (University of Oulu, Finland)
Submicron Microstructure and Mechanical Properties Achieved in a Short Annealing of Cold-Rolled Austenitic Stainless Steels
- 15:55 **Dagoberto B. SANTOS**¹, **Élida G. NEVES**¹, **Elena V. PERELOMA**² (1. Federal University of Minas Gerais, Brazil; 2. Monash University, Australia)
The Effect of Ultrafine Grain Size on the Strain Hardening of a Nb-Ti Steel Processed by Warm Rolling and Intercritical Annealing
- 16:15 **PENG Yun, HE Changhong, TIAN Zhiling**, et al. (Central Iron and Steel Research Institute, China)
Study of Arc Welding of Fine Grained Low Carbon Steel
- 16:35 **Toru HOSHI, Yasunobu NAGATAKI, Saiji MATUOKA**, et al. (JFE Steel Corp., Japan)
Cu Precipitation and Hardening Behaviour in Cu Added 0.19%C-1.5%Mn Martensitic Ultra-High Strength Steels
- 16:55 **GAO Cairu, DU Linxiu, XIAO Baoliang**, et al. (Northeastern University, China)
Welding Procedure and Joint Ductility of ANS400 Steel Strip
- 17:15 **MA Chengyong, TIAN Zhiling, PENG Yun**, et al. (Central Iron and Steel Research Institute, China)
The Microstructure and Properties of Welded Joint of 20 mm Thick 800 MPa Grade RPC Steel

Session 2

Physical Metallurgy of HSLA Steels Alloying Effects and Mechanisms

Coordinator: LIU Guoquan

PM, November 9

Place: Mysterious Fruit Function Hall-Section A (Second Floor) 神秘果多功能厅 A 区(二楼)

Chairmen: LIU Guoquan (University of Science and Technology Beijing, China)
Anthony J. DeArdo (University of Pittsburgh, USA)

13:30 *Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)*

14:00 **David K. MATLOCK¹, Robert J. GLODOWSKI², John G. SPEER¹**, et al. (1. Colorado School of Mines; 2. Stratcor Performance Materials, USA)
Vanadium in Cold Rolled HSLA Sheet Steel

14:20 **Shunichi HASHIMOTO** (CBMM Asia Co., Ltd., Japan)
Effect of Niobium Addition on Zn-coated 590 DP Steel

14:40 **DONG Junhua, CHEN Xinhua, HAN Enhou**, et al. (Institute of Metal Research, Chinese Academy of Sciences, China)
Synergistic Effect of Copper and Manganese on Resistant to Atmospheric Corrosion for Low-alloying Steel

15:00 **GUO Aimin^{1,2}, GUO Jia¹, YUAN Weixia²**, et al. (1.Beijing University of Science and Technology; 2.Wuhan Iron and Steel Company, China)
Influence of Zr on Toughness of HAZ for Ultra High Strength Low Carbon Banite Steel

15:20 **ZHANG Jiansu¹, T. N. BAKER²** (1.Baoshan Iron and Steel Co. Ltd, China; 2University of Strathclyde, UK)
Effect of Titanium on the Precipitation of VN and AlN in Austenite

15:40 *Coffee Break*

16:00 **Harish NATHANI¹, Devesh K. MISRA¹, Jack HARTMANN²**, et al. (1.University of Louisiana at Lafayette; 2.Mittal Steel, USA)
Some Physical Metallurgy Aspects of High Strength Hot Rolled Nb-Ti Microalloyed Steels with Superior Fracture Resistance and Formability

16:20 **Christian KLINKENBERG** (Niobium Products Company GmbH, Germany)
Niobium in Microalloyed Structural & Engineering Steel

16:40 **PAN Tao¹, CUI Yinhui², SU Hang¹**, et al. (1.Central Iron and Steel Research Institute; 2. Maanshan Iron and Steel Co., Ltd., China)
Effect of Vanadium on the Strength and Toughness of Wheel Steel at Different Reheat Temperatures

17:00 **Nina FONSTEIN** (Mittal Steel, USA R&D Center)
Effect of Al, C, and Mn on Structure and Mechanical Properties of Dual-Phase and TRIP steels

17:20 **Masana IMAGUMBAI** (CBMM ASIA Co., Ltd. Japan)
Microalloy Design and Weld Joint Properties of ERW Linepipe via TSC

Session 2

Physical Metallurgy of HSLA Steels Transformation and Precipitation

Coordinator: LIU Guoquan

AM, November 10

Place: **Mysterious Fruit Function Hall-Section A (Second Floor)** 神秘果多功能厅 A 区(二楼)

Chairmen: WANG Fuming (University of Science and Technology Beijing, China)

John H. BEYNON (The University of Sheffield, UK)

- 08:00 ZHANG Hongtao, PANG Ganyun, WANG Ruizhen, et al. (Central Iron and Steel Research Institute, China)
Physico-metallurgical Characters of Nb-microalloyed Steels during Thin Slab Casting and Direct Hot Strip Rolling
- 08:20 XU Man¹, SUN Xinjun², LIU Qingyou², et al. (1. Guangzhou Zhujiang Steel Co. Ltd.; 2. Central Iron and Steel Research Institute, China)
Precipitation Strengthening of V(C, N) in High Vanadium Steels
- 08:40 QIN Yueling¹, LUO Haiwen^{2,3}, Bart KOOI¹, et al. (1. University of Groningen, The Netherlands; 2. Delft University of Technology, The Netherlands; 3. National Engineering Research Center of Advanced Steel Technology; Central Iron and Steel Research Institute, China)
Influence of a Trace Amount of Ti on Precipitates in Nb Microalloyed Steel during Reheating
- 09:00 WANG Ruizhen¹, M. HUA², ZHANG Hongtao¹, et al. (1. Central Iron and Steel Research Institute, China; 2. University of Pittsburgh, USA)
The Evolution of Precipitation during the CSP Process in a Nb, Ti, V Complex Microalloyed Steel
- 09:20 Ping-guang XU¹, Yo OMOTA¹, Peter LUKAS², et al. (1. Ibaraki University, Japan; 2. Nuclear Physics Institute, Czech Republic)
In Situ Neutron Diffraction of Austenite-to-Ferrite Transformation in Nb-free and Nb-added Low Alloy Steels during Thermo-mechanically Controlled Process
- 09:40 *Coffee Break*
- 10:00 WU Hongyan, DU Linxiu, MA Zheng, et al. (Northeastern University, China)
Characterization of Precipitates in Vanadium and Titanium Microalloyed HSLA Steels
- 10:20 YANG Ying^{1,2}, YANG Zhanbing¹, WANG Fuming¹ (1. University of Science and Technology Beijing; 2. Anshan Iron and Steel Group Cooperation, China)
Effect of Inclusion on Formation of Acicular Ferrite in Ti-bearing Non-quenched-and-Tempered Steels
- 10:40 WANG Wei, WANG Huanrong, WANG Chengquan (Baosteel Technology Center, China)
In-situ Observations of Austenite Grain Growth
- 11:00 LI Guangying¹, ZHANG Jiangling¹, GAO Shijie², (1. Central Iron and Steel Research Institute; 2. Shijiazhuang Iron and Steel Company, China)
Austenite Recrystallization and Transformation of CrMo Alloyed Steel during Hot Deformation
- 11:20 LIU Hao^{1,2}, ZHONG Dingzhong², CHEN Yantang², et al. (1. Wuhan Science and Technology University; 2. Wuhan Iron and Steel Group Cooperation, China)
Investigation on Continuous Cooling Transformation Behavior of High Strength Cold Rolled Steel Containing Nb & Ti
- 11:40 YIN Guiquan¹, YANG Caifu², WANG shijun¹, et al. (1. Anhui University of Technology; 2. Central Iron and Steel Research Institute, China.)
Second Phase Particles and Intragranular Ferrite Nucleation in Microalloyed V-N Steels

Session 2

Physical Metallurgy of HSLA Steels

Microstructure and Properties

Coordinator: LIU Guoquan

PM, November 10

Place: Mysterious Fruit Function Hall-Section A (Second Floor) 神秘果多功能厅 A 区(二楼)

Chairmen: HE Xinlai (University of Science and Technology Beijing, China)

Jose Maria RODRIGUEZ-IBABE (The Centro de Estudios e Investigaciones Técnicas de Gipuzkoa, Spain)

- 13:30 **K. P. DAS, P. P. CHATTOPADHYAY, S. DATTA**, et al. (Bengal Engineering and Science University, India)
Study on the Mechanical Behaviour of Low Carbon TRIP Aided Steel
- 13:50 **CHAI Feng^{1,2}, YANG Caifu², ZHANG Yongquan²**, et al. (1.Shanghai Jiaotong University; 2.Central Iron and Steel Research Institute, China)
Coarse-grain Heat Affected Zone Microstructure and toughness of Copper-Bearing Age-Hardening steels
- 14:10 **WANG Xuemin, HE Xinlai, YANG Shanwu**, et al. (University of Science and Technology Beijing, China)
The Refinement Technology for Bainite and Its Application
- 14:30 **J. S. KANG¹, S. S. AHN², K. B. KANG²**, et al. (1. Pohang Univ. of Sci. and Tech.; 2. Technical Research Laboratories, Korea)
Effects of Isothermal Holding Temperature and Deformation on the Formation of Lower Bainite Microstructure in B-added Low Carbon High Strength Low Alloy Steels
- 14:50 **PANG Ganyun¹, ZHANG Jiamou², ZHANG Hongtao¹**, et al. (1.Central Iron and Steel Research Institute; 2. Nanchang Iron and Steel Co., Ltd., China)
The Relationship of Microstructure and Mechanical Properties of Hot Rolled Nb-microalloyed High Strength Rebar Steel
- 15:10 *Coffee Break*
- 15:30 **QU Zhaoxia, LI Zigang** (Baoshan Iron and Steel Co., LTD, China)
Fatigue Strength of Welded Joints of Hot-Rolled High Strength Steel
- 15:50 **ZHU Fuxian, LIU Xianghua, LI Xin**, et al. (Northeastern University, China)
Effect of Two-stage Cooling on Yield Ratio of Fine-Grain Ferrite/Pearlite Steel
- 16:10 **Evelin RATTE, Vitoon UTHAISANGSUK, Michael BLUMBACH**, et al. (RWTH Aachen University, Germany)
Reliable Input Data for FEM of Advanced HSLA Sheet Steels
- 16:30 **SU Shihuai¹, HUI Weijun^{1,2}, YU Tongren¹**, et al. (1. Maanshan Iron and Steel Co., Ltd; 2. Central Iron and Steel Research Institute, China)
On-line Softening of Medium Carbon Steel through TMCP and Its Application

Session 3

Processes and Modeling of HSLA Steels

Thin Slab and Direct Rolling, High Strength Steels and Processes

Coordinator: ZHANG Hongtao

PM, November 9

Place: Mysterious Fruit Function Hall-Section B (Second Floor) 神秘果多功能厅 B 区(二楼)

Chairmen: ZHANG Hongtao (Central Iron and Steel Research Institute; National Engineering Research Center of Advanced Steel Technology, China)

Karl Ernst HENSGER (CBMM, Germany)

13:30 **Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)**

14:00 **ZHAO Zhengzhi, KANG Yonglin, YU Hao**, et al. (University of Science and Technology Beijing, China)

Grain Refinement and Strengthening Mechanism of Automobile Beam Steels Produced by CSP Technology

14:20 **Fulvio Siciliano¹, Luis A. Leduc Lezama², Christian Klinkenberg³**, et al. (1.Companhia Brasileira de Metalurgia e Mineração, Brazil; 2. HylsaMex, Mexico; 3. Niobium Products Company GmbH, Germany)

Processing of Nb-microalloyed HSLA steels in CSP facilities

14:40 **HUO Xiangdong¹, MAO Xinping¹, LI Liejun¹**, et al. (CSP Applying Technology Research Institute of GISE, China)

Strengthening Mechanism of Ti Micro-alloyed High Strength Steels Produced by Thin Slab Casting and Rolling

15:00 **F. SICILIANO¹, L. L. LEDUC², K.HENSGER³** (1.CBMM, Brazil.; 2.HylsaMex, Mexico; 3.Paul-Wäge-Str. 22, Germany)

The Effect of Chemical Composition on the Hot-Deformation Resistance during Processing of Microalloyed Steels in Thin Slab Casting/Direct Rolling Process

15:20 **SONG Mantang, WANG Huizhong** (Benxi-steel Steel-making Plant, China)

The Production Practice of Ultra-Low-Sulfur Steel in Benxi-steel

15:40 **Coffee Break**

16:00 **LI Guobin, LIU Xuhui** (Wuhan Iron and Steel Co.Ltd, China)

Analysis of Cracking in High-Strength Ship Plates

16:20 **CHEN Zhiping^{1,2}, ZHU Miaoyong¹, CHENG Nailiang²**, et al. (¹Notheastern University, China; 2.Shanghai Meishan Steel Corp. of Baosteel Group, China)

Study on High Temperature Mechanical Properties of Peritectic Steel

16:40 **LI Chaofeng, ZHANG Yongjia** (BAOSTEEL, China)

Effect of Thermo-mechanical Control Process on Property of Age Hardenable Copper Bearing Steel

17:00 **FU Kuijun, HAO Sen, WANG Dongming** (Anshan Iron and Steel Group Corporation, China)

Effect of Different Ti Process on Microstructure and Toughness of HAZ

Session 3

Processes and Modeling of HSLA Steels

Modeling of Microstructural Evolution during Rolling Process

Coordinator: ZHANG Hongtao

AM, November 10

Place: Mysterious Fruit Function Hall-Section B (Second Floor) 神秘果多功能厅 B 区(二楼)

Chairmen: WANG Guodong (Northeastern University, China)

Bruno C. De COOMAN (Ghent University, Belgium)

- 08:00 **WANG Xitao**^{1,2}, **Tadeusz SIWECKI**², **Göran ENGBERG**³ (1.University of Science and Technology Beijing, China; 2.Corrosion and Metals Research Institute (KIMAB), Sweden; 3. SSAB Tunplåt AB, Sweden)
Physical Based Modeling on Microstructure Evolution in Thermo-mechanical Processing
- 08:20 **ZHOU Xiaoguang**¹, **LIU Zhenyu**¹, **JIAO Sihai**², et al. (1. Northeastern University; 2.Baosteel Co., China)
Modeling of Ferrite Transformation Kinetics during Hot Strip Rolling of the Q460 Grade Steel
- 08:40 **Janusz MAJTA**, **Monika STEFANSKA-KADZIELA**, **Krzysztof MUSZKA** (AGH University of Science and Technology, Poland)
Modeling of Strain Rate Effects on Microstructure Evolution and Mechanical Properties of HSLA and IF-Ti Steels
- 09:00 **XIAO Namin**, **TONG Mingming**, **LAN Yongjun**, et al. (Institute of Metal Research, Chinese Academy of Sciences, China)
The Application of Crystal Plasticity Finite Element Method in the Mesoscale Simulation of Deformed Austenite Decomposition into Ferrite
- 09:20 **Heung Nam HAN**, **Seung Hyun LEE**, **Hu Chul LEE**, et al.(Seoul National University, Korea)
A Prediction Model for Transformation-Induced Plasticity and Mechanically-Induced Martensitic Transformation in Steel
- 09:40 **Coffee Break**
- 10:00 **LIU Guoquan**, **LIU Shengxin**, **ZHONG Yunlong**, et al. (University of Science and Technology Beijing, China)
Microstructure and Properties of Non-Quenched/Tempered Seamless Tubes Made of Medium Carbon V-microalloyed Steel
- 10:20 **Mahesh SOMANI**, **Pentti KARJALAINEN** (University of Oulu, Finland)
Physical Modelling of the Transient Behaviour of Flow Stress in Ferrite under Abrupt Strain Rate Change Conditions
- 10:40 **LIU Zhengdong**, **TANG Guangbo**, **WEI Jie**, et al. (Central Iron and Steel Research Institute, China)
Assessment and Investigation of Recrystallization Models during Hot Strip Rolling
- 11:00 **WANG Wei**, **LIU Dan** (Baosteel Technology Center, China)
Modeling Study of Interaction between Grain Boundary and Second Phase Particles
- 11:20 **ZHAO S.X.**¹, **WANG W.**², **MAO D.L.**¹, et al. (1. Shanghai Jiaotong University; 2. Baosteel Technology Center, China)
Kinetics of Bainite transformation (I) Diffusional Growth Model

Session 3

Processes and Modeling of HSLA Steels

Microalloying and Processes, Cold Rolled Steels

Coordinator: ZHANG Hongtao

PM, November 10

Place: Mysterious Fruit Function Hall-Section B (Second Floor) 神秘果多功能厅 B 区(二楼)

Chairmen: HUI Weijun(Central Iron and Steel Research Institute; National Engineering Research Center of Advanced Steel Technology, China)
Heung Nam HAN (Seoul National University, Korea)

- 13:30 **CAO Yan, HUANG Zhenyi, WANG Ping**, et al. (Anhui University of Technology, China)
Effect of Rolling Process on the Microstructure and Mechanical Properties of Low Carbon V-N Steel
- 13:50 **MA Liqiang, YUAN Xiangqian, LIU Zhengyu**, et al. (Northeastern University, China)
Experimental Investigation and Mathematical Modeling of Dynamic Recrystallization Behavior of Nb Microalloyed Steels
- 14:10 **YU Hao, KANG Yonglin, WANG Xin**, et al. (University of Science and Technology Beijing, China)
Research on Microstructure and Property of Low Carbon Steel Produced by Flexible Thin Slab Rolling with Warm Rolling Technology
- 14:30 **N.A. NARKEVICH¹, N.K. GALCHENKO¹, E.A. IVANOVA²**, et al. (1.Institute of Strength Physics and Materials Science SB RAS; 2.Tomsk Polytechnic University, Russia)
Hardening of Low-Carbon Steel by Electron-Beam Surfacing of Nitrogen and Carbon Coatings with the Austenitic Matrix
- 14:50 **WANG Quanli, LI Fei, ZHANG Gongyan**, et al. (Shougang General Corporation, China)
Development of Cr, V Microalloyed SWRH82B Wire Rod Produced by CC-CR with 130mm×130mm Billet
- 15:10 *Coffee Break*
- 15:30 **Hardy MOHRBACHER** (Niobium Products Company GmbH, Germany)
Laser Welding of Modern Automotive High Strength Steels
- 15:50 **Jozef ZRNIK^{1,2}, Ondrej STEJSKAL³, Zbyšek NOVY¹**, et al.(1. Comtes FHT, Czech Republic; 2. Technical University of Košice, Slovak Republic; 3. West Bohemian University, Czech Republic)
Development of TRIP Effect in Si-Mn Bulk Steel Using Technique of Press Forging
- 16:10 **Christian LESCH¹, Pedro ÁLVAREZ², Wolfgang BLECK¹**, et al. (1.RWTH Aachen University, Germany; 2.Universidad de Navarra, Spain)
Grain Refinement of Cold Rolled Low Carbon Steels by Rapid Transformation Annealing
- 16:30 **Dipak kumar MONDAL¹, Atanu SAHA²** (1.National Institute of Technology, India; 2.Central Mechanical Engineering Research Institute, India)
Effect of Cyclic Annealing on the Development of Grain Size, Microstructures and Mechanical Properties of Plain-Carbon Steels
- 16:50 **LIU Hao^{1,2}, CHEN Xiao^{1,2}, SUN Fangyi²**, et al. (1.Wuhan Science and Technology University, China; 2.Wuhan Iron and Steel Group Cooperation, China)
Investigation of Batched Annealing Process in Nb&Ti Bearing High Strength Cold Rolled Steel Sheet

Session 4

Products and Applications of HSLA Steels

Pipeline Steels, Structural Steels

Coordinator: WANG Zubin

PM, November 9

Place: Mysterious Fruit Function Hall-Section C (Second Floor)神秘果多功能厅 C 区(二楼)

Chairmen: WANG Zubin (Central Iron and Steel Research Institute, China)

Hiroshi TAKECHI (Fukuoka Institute of Technology, Japan)

- 13:30 *Poster Session (Place: Piaoxiang Room and Yinghong Room 飘香厅和映红厅)*
- 14:00 **Sankaran SHANMUGAM, Mahesh TANNIRU, Devesh K. MISRA**, et al. (University of Louisiana at Lafayette, USA)
Development of Ultrahigh Strength (100-120ksi) Niobium Containing HSLA Steels for Pipeline Applications
- 14:20 **L.I. EFRON¹, M. Y. MATROSOV¹, A.V. GOLOVANOV²**, et al. (1. I.P. Bardin Research Institute for ferrous metallurgy, Russia; 2. Severstal steel Works Steel Works, Russia)
Development of Steels with Increased Strength and Cold Resistance for Large-Diameter Electric-Welded Pipes at Severstal Steel Works
- 14:40 **ZHENG Lei, GAO Shan** (Baoshan Iron and Steel Co. Ltd., China)
Production and Application of High Strength and High Toughness Pipeline Steel with Acicular Ferrite
- 15:00 **LIU Yazheng¹, HE Jianzhong², LIU Libin¹**, et al. (1.University of Science and Technology Beijing; 2. Baotou Iron and Steel (Group) Co. Ltd., China)
Research on the Strengthening and Toughening Mechanism of Nb Bearing X60 Pipeline Steel by CSP Process
- 15:20 **Douglas G. STALHEIM** (DGS Metallurgical Solutions, Inc., USA)
The Use of High Temperature Processing (HTP) Steel for High Strength Oil and Gas Transmission Pipeline Applications
- 15:40 *Coffee Break*
- 16:00 **Y. MOROZOV¹, V. KORNILOV², S. NASTICH¹**, et al. (1.I.P.Bardin Research Institute; 2."MMK" - Magnitogorsky Metallurgical Combine, Russia)
Development of Hot Rolled Strip Steels with Improved Weldability for API X60-X70 Grade Pipes
- 16:20 **W.J.FAZACKERLEY¹, P.A.MANUEL², L.CHRISTENSEN³** (1.EWI Microalloying International, USA; 2.Crantek Quality Services, Inc., Canada; 3. Colorado Interstate Gas (El Paso), USA)
First X-80 HSLA Pipeline in the USA
- 16:40 **Hyung-Ha JIN and Hu-Chul LEE** (Seoul National University, Korea)
Acicular Ferrite Microstructure under Isothermal Transformation in Low Carbon Steel containing V and Mo
- 17:00 **LI Shurui¹, GUO Aimin^{1,2}, HUANG Jing¹**, et al. (1.WISCO; 2.University of Science and Technology Beijing, China)
Study on the 610 MPa Grade Steel for High Heat Input Weld Applications
- 17:20 **HOU Huaxing, GUO Huijiu, HAO Sen**, et al. (Anshan Iron and Steel Group Co., China.)
The Properties and Microstructures of ULCB 800N/mm² Steel Grade Quenched at the Different Temperatures
- 17:40 **SHEN Junchang, LIU Zhiyong, YANG Caifu**, et al. (Central Iron and Steel Research Institute, China)
Research of Fire-resistant Steels for Buildings

Session 4

Products and Applications of HSLA Steels
Automobile Sheets, Structural Steels

Coordinator: WANG Zubin

AM, November 10

Place: Mysterious Fruit Function Hall-Section C (Second Floor) 神秘果多功能厅 C 区(二楼)

Chairmen: ZHENG Lei (Baoshan Iron and Steel Co. Ltd., China)
Ohjoon KWON ((POSCO, Korea)

08:00 **MA Mingtu, LI Zhigang, YI Hongliang** (China Chongqing Automobile Research Institute, China)
Applications of High Formability and Fine Grain Hot Rolling C-Mn Steel Plate in Vehicle

08:20 **LI Lin¹, B.C. De COOMAN², ZHANG Mei¹**, et al. (1. Shanghai University, China; 2. Universiteit Gent, Belgium)
Designing of the Low Carbon Low Silicon TRIP Steels

08:40 **I.B. TIMOKHINA, M. RYAN, E.V. PERELOMA**, et al. (Monash University, Australia)
Microstructure and Mechanical Properties of Thermomechanically Processed and Bake-Hardened Nb-Mo-Al TRIP Steel

09:00 **YANG Chunxia, SHI Wen, LI Lin** (Shanghai University, China,)
Static and Dynamic Mechanical Properties of Low Carbon Low Silicon TRIP steel Containing Aluminum and Vanadium

09:20 **ZHANG Mei^{1,2}, FU Renyu¹, CAO Dongdong²**, ect. (1.Shanghai University; 2.Shanghai Huizhong Automotive Manufacturing Co. Ltd. China)
Development of the Micro-alloyed TRIP Steels and Properties of their Laser Welded Blanks

09:40 *Coffee Break*

10:00 **Sergey ALEKSANDROV¹, Klaus HULKA¹, Andreij STEPASHIN²**, et al. (1.Niobium Products Company GmbH, Germany; 2. UralSteel – OKhMK, Russia)
High Strength Steel for the Truck Industry and Mining Equipment Operating in Arctic Environment

10:20 **Rachit KHANNA, Shambhu Kumar JHA** (M. N. Dastur and Company (P) Ltd, India)
High Strength Low Alloy Steels - Indian Scenario

10:40 **XU Luoping, LI Lin, MIN Yongan** (Shanghai University, China)
Development of the Limited Hardenability Steel and Its Contact Fatigue Behavior

11:00 **LI Xiaofei¹, Peter LANGENBERG², Sebastian MÜNSTERMANN²**, et al. (1. Anshan Iron and Steel Corporation, China; 2. RWTH Aachen University of Technology, Germany)
Recent Developments of Modern Rail Steels

11:20 **WANG Xiaowen, LIU Xianghua, WU Di**, et al. (Northeastern University, China)
Development of Super Steel Hot Rolled Ribbed Bars

11:40 **YIN Jiang, WANG Zhi-zheng, LIN Jun**, et al. (Special Steel Branch of Baosteel Ltd. China)
Air-cooled Mn Series Bainitic Long Steel Products and Their Industrialization

Session 4

Products and Applications of HSLA Steels Structural Steels

Coordinator: WANG Zubin

PM, November 10

Place: Mysterious Fruit Function Hall-Section C (Second Floor) 神秘果多功能厅 C 区(二楼)

Chairmen: WU Xiaochun (Shanghai University, China)

John G. SPEER (Colorado School of Mines, USA)

- 13:30 **JIANG Laizhu, HOU Hong, PENG Kang**, et al. (Shanghai Baosteel Group, China)
Development of a 610MPa Class Q&T High Strength Steel Plate B610E for Large Oil Storage Tanks
- 13:50 **Sergey ALEKSANDROV¹, Klaus HULKA¹, Youri MOROSOV²**, et al. (1.Niobium Products Company GmbH, Germany; 2. I.P.Bardin Research Institute, Russia)
The Application of Microalloyed HSLA Steel in the Russian Construction Industry
- 14:10 **Yu. I. MATROSOV¹, O. V. NOSOCHENCO², O. A. BAGMET²**, et al.(1. I.P. Bardin Central Iron and Steel Research Institute, Russia;2.Azovstal Iron & Steel Works, Ukraine)
Trial Commercial Production and Research into Structure Formation Processes of High Strength Steel Plates for Pressure Vessels
- 14:30 **WANG Longmei¹, LIN Qin², JI Jingwen³**, et al. (1. Central Iron and Steel Research Institute; 2.University of Science and Technology Institute Beijing; 3. Northeastern University, China)
Current Progress in Study of Application of Rare Earth Elements in HSLA Steels
- 14:50 **ZHENG Zhiwang, LIU Qingchun** (Panzhuhua Iron and Steel Research Institute, China)
Effect of Vanadium on the Properties of Fire-Resistant Weathering Steels
- 15:10 *Coffee Break*
- 15:30 **John G. SPEER¹, Steven G. JANSTO², Justin C. CROSS¹**, et al. (1.Colorado School of Mines; 2. Reference Metals Corporation, USA)
Elevated Temperature Properties of Niobium-Microalloyed Steels for Fire-Resistant Structural Applications
- 15:50 **LIU Zhiyong¹, SHEN Junchang², YANG Caifu²**, et al. (1.Wuhan Iron and Steels Company; 2. Central Iron and Steels Research Institute, China)
Microstructure and Mechanical Properties of Fire-Resistant Steel
- 16:10 **FENG Yong** (Jinan Iron and Steel Co. Ltd., China)
The Development of Microalloyed Steel in Jisteel
- 16:30 **WU Xiaochun, LUO Yi, MIN Yong'an**, et al.(Shanghai University, China)
Microstructure and Properties of Large Section Microalloyed Steel in Unquenched and Untempered with High Strength
- 16:50 **YANG Z. G., YU Li, ZHANG C.**, et al. (Tsinghua University, Beijing, China)
High Strength Non-moderate Ferrite/Granular Bainite Steel for Thick Plate

**November 9
(11:30-12:00 and 13:30-14:00)**

Place: Piaoxiang Room and Yinghong Room(Second Floor) 飘香厅和映红厅(二楼)

Ultrafine Grained Structures

W001	Rongjie SONG, Dirk PONGE, Dierk RAABE (Max-Planck-Institut Für Eisenforschung, Germany) The Formation of Ultrafine Grained Microstructure by Large Strain Warm Deformation and Annealing In a C-Mn Steel
W006	Giovane AZEVEDO¹, Ronaldo BARBOSA², Elena V. PERELOMA³ , et al. (1.Technical College; 2.Federal University of Minas Gerais, Brazil; 3.Monash University, Australia) Correlation between Mechanical Properties, Microstructure and Processing Parameters in Ultrafine Grained C-Mn and Nb-Ti Steels
W045	Yoshitomo FUJIMURA¹, Koichi NAKASHIMA², Toshihiro TSUCHIYAMA² , et al. (1.Nisshin Steel Corporation Ltd; 2.Kyushu University, Japan) Dislocation Strengthening in Ultralow Carbon 18%Ni Martensitic Steel
W046	Tomohiro ANDO¹, Koichi NAKASHIMA², Toshihiro TSUCHIYAMA² , et al. (1.Kyushu University; 2. Kyushu University, Japan) Formation of Fine ($\alpha+\beta$) Structure by Aging Treatment in Solution-Nitrided Ti-4Cr Alloy
W047	A. SHOKOUHI, P.D. HODGSON (Deakin University, Australia) The Role of Dynamic Recrystallisation in Grain Refinement through Strain Induced Transformation
Z057	HUANG Zhaoxin, WANG Jinghua, WANG Qingxian , et al. (Qingdao Iron and Steel Co., Ltd., China) The Testing Process of Hot-Rolled Ribbed Bar with Ultra-Fine Grain in 20MnSi Steel Property
Z078	LIU Zhaoxia, LI Dianzhong, QIAO Guiwen (Institute of Metal Research, The Chinese Academy of Sciences, China) An Investigation on Deformation Induced Ferrite Transformation above Ae_3 Temperature in a Low Carbon Steel
Z156	SU Shihuai¹, MA Yuping¹ (Maanshan Iron and Steel Co., Ltd., China) R&D of Microalloyed Ultrafine HSLA Steel in Masteel's CSP Line

Physical Metallurgy of HSLA Steels

W052	S.Y. SHIN¹, S. LEE¹, N.J. KIM¹ , et al. (1. Pohang University of Science and Technology; 2.Hanyang University, Korea) Analysis of Fracture Toughness in Transition Temperature Region of An API X70 Linepipe Steel
W056	I.Yu. PYSHMINTSEV¹, D.A. PUMPYANSKYI², L.G. MARCHENKO² , et al. (1. Russian Research Institute for the Tube and Pipe Industries; 2. TMK, Russia) Strength and Bauschinger Effect in TMCP Line Pipe Steels
Z006	LIU Hao^{1,2}, CHEN Xiao^{1,2}, LI Pinghe² , et al. (1.Wuhan Science and Technology University; 2.Wuhan Iron and Steel Group Cooperation, China) Precipitation Behavior of Second-phase Particles and Microstructure Characteristics in Nb & Ti Micro-alloyed High Strength Steel
Z011	YUAN X. Q.¹, LIU Z. Y.¹, JIAO S. H.² , et al. (1.Northeastern University; 2.Baosteel Co., China) Dilatometric Study on the Start Temperature for γ to α Phase Transformation in C—Mn Steels Micro-alloyed with Nb
Z014	QI Junjie^{1,2}, ZHANG Lina², ZHANG Xiaozhong² , et al. (1.University of Science and Technology Beijing; 2. Tsinghua University, Beijing, China) Quantitative Compositional Analysis of P Segregation to Grain Boundaries in Steel by Use of EDS and EELS
Z016	PEI Xinhua¹, HU Hengfa¹, HUANG Xuchuan¹ , et al. (1. Shanghai meishan CO., LTD., Baosteel Group; 2. Southeast University, China) Research on the Deformation Behavior of Low Carbon Steel
Z020	YI Hailong, DU Linxiu, WANG Guodong , et al. (Northeastern University, China) The Influence of Holding Time on Bainite Transformation in Deformed Niobium Microalloyed Steel
Z021	YI Hailong, DU Linxiu, WANG Guodong , et al. (Northeastern University, China) Bainite Transformation under Continuous Cooling of Nb-microalloyed Steel
Z022	JI Lingkang^{1,2}, XIE Lihua³, WANG Hongxia³ , et al. (1. The Key Laboratory for Mechanical and Environmental Behavior of Tubular Goods, CNPC;2.Tubular Goods Reaserch Center , CNPC; 3.Xi'an Shiyu University, China) Effect of Tensile Specimen Shape Factor on Test Results for High Grade Line Pipe with Heavy Thickness
Z030	WANG Kai, WANG Lijun, CUI Wenfang , et al. (Northeastern University, China) Effect of V Microalloying on Phase Transformation in Low Carbon Steels during Continuous Cooling Process
Z034	LI Long, DING Hua, DU Linxiu , et al. (1. Northeastern University, China) Effect of Mn Content and TMCP on Microstructures and Mechanical Properties of C-Mn Steels

Z060	ZHAO Yuntang, YANG Shanwu, ZHANG Xueyong , et al. (University of Science and Technology Beijing, China) The Influence of Chromium on Rust Structure and Corrosion Resistance of Microalloyed Steels
Z063	HUANG Zhenyi^{1,2}, CHEN Guang¹, LIU Yaran¹ , et al. (1.Nanjing University of Science and Technology; 2. Anhui University of Technology, China) Research on Microalloying for Improving Segregation of High-Carbon Hot-Rolling Wire-Rod
Z066	GAO Yifei, SHEN Junchang, LIU Tao , et al. (Central Iron and Steel Research Institute, China) Comparison between Charpy Transition Temperature T_{CVN} and Reference Temperature T_0 for 10Ni3CrMoV Ferritic Steel
Z069	ZHANG Xueyong¹, GUO Aimin^{1,2}, YANG Shanwu¹ , et al. (1.University of science and Technology Beijing; 2.Wuhan Iron and Steel Co. (Group), China) Study on the Microstructure, Mechanical Properties and Corrosion Resistance of a Novel HSLA Steel
Z072	WANG Andong^{1,2}, LIU Guoquan¹, LIU Shengxin¹ , et al. (1. University of Science and Technology Beijing; 2. Jiangsu University, China) Thermodynamic Calculations of Carbonitrides in V-Ti-N Microalloyed Steels for Non-Quenched and Tempered Oil Well Tubes
Z075	BU Yong, YIN Fazhang, HU Benfu (University of Science and Technology Beijing, China) Effect of Addition Rare-earth Metal, Ca and Mg Elements on Microstructure and Toughness of Large Heat-Input Weld Hot Affect Zone
Z080	SONG Hongmei (Baoshan Iron and Steel Co., LTD, China) Effects of Silicon, Manganese and Hot-rolling Parameters on Mechanical Properties of DP Steels
Z086	LIU Kai¹, SHAN Yiyin¹, XU Jiayan² , et al. (1. Institute of Metal Research, Chinese Academy of Sciences; 2. Benxi Iron and Steel Co., China) Effect of Sulfur Content on Hydrogen Induced Cracking in Pipeline Steels
Z087	YAN Wei, SHAN Yiyin, YANG Ke , et al. (Institute of Metal Research, Chinese Academy of Sciences , China) Effect of TiN Inclusions on Impact Toughness of Low Carbon Microalloyed Steels
Z106	YU Xiaoguang^{1,2}, HAN Bing² (1. University of Science and Technology Beijing; 2.Anshan University of Science and Technology, China) Study on Microstructure and Property of Heavy Plate after High Denseness Pipes Laminar Flow Accelerated Cooling
Z118	LIU Keming, WANG Fuming, LI Changrong , et al. (University of Science and Technology Beijing, China) Influence of Vanadium on Microstructure and Properties of Medium-chromium White Cast Iron
Z119	ZHANG Y.J., DONG H., HUI W.J., CHEN S.L. , (Central Iron and Steel Research Institute, China) Effect of Deformation on the Mechanical Properties of a Microalloyed Medium Carbon Steel

Z132	WANG Bing, LIU Qinyou, WANG Xiangdon , et al. (Central Iron and Steel Research Institute, China) Effect of RE (Rare Earth) on Improving the Corrosion Resistance of Steel
Z142	YIN Yunyang¹, YANG Wangyue¹, YIN Guiquan² , (1.University of Society and Technology Beijing; 2. Anhui University of Technology, China) Second Phase Particles and Their Effects on Microstructure and Properties after Rolling in V-N Micro-alloying Steels
Z147	SUN Yuhong¹, LI Jianhua², FAN Yunbo¹ , (1.NingboBranch of China Academy of Ordance Science; 2.Nortel Networks Beijing, China) Microstructure of Wear Resistant Steel with Austenite Toughening Martensite
Z154	LIU Junliang, QIAN Hua, JIANG Laizhu , et al. (Baosteel Technology Center, China) Precipitate Observation in a High Strength B610E Plate
Z158	MA Zhaohui, ZHANG Hanqian, HAN Jian , et al. (Shanghai Baosteel Research Institute, China) Weldability Research of B610E (08MnNiVR) High Strength Q&T Steel Developed by Baosteel
Z166	SHANG Chengjia, NIE Yi, HE Xinlai , et al. (University of Science and Technology Beijing, China) Intermediate Transformation Structure and Mechanical Properties of High Strength Low Carbon Bainite Steel
Z169	WANG Enrui¹, YANG Caifu², ZHANG Yongquan² , et al. (1.Anhui University of Technology; 2. Central Iron and Steel Research Institute, China) The Influence of Temperature Distribution after Hot Rolling on Structure and Mechanical Performance of the V\N Micro-alloying H-beam

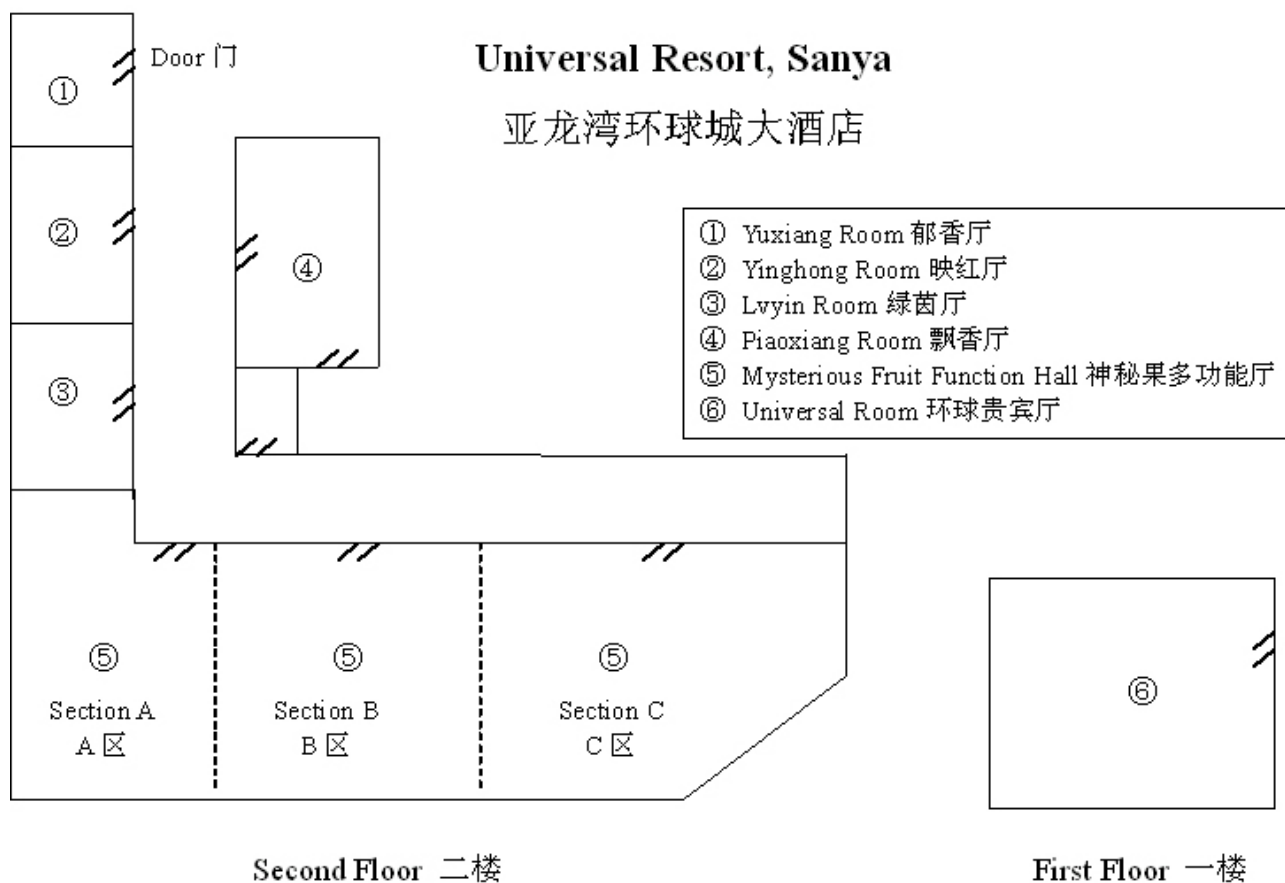
Processes and Modeling of HSLA Steels

Z002	YUAN Guo, WANG Guodong, LIU Xianghua (Northeastern University, China) Numerical Simulation of Heat Transfer Process under Ultra Fast Cooling For Hot Strip
Z025	CHENG Jiefeng¹, LIU Zhengdong¹, TANG Guangbo¹ , et al. (1. Central Iron and Steel Research Institute; 2. BaoSteel Co. Ltd., China) Coiling Temperature Prediction at 2050 HSM of BaoSteel
Z053	DENG Suhuai, CUI Jingyu, CHEN Jingsheng , et al. (Shougang Research Institute of Technology, China) Effect of Heat Treatment on Microstructure and Mechanical Property of Brake Beam Steel
Z056	CHEN Qingjun^{1,2}, KANG Yonglin¹, YU Hao¹ , et al. (1. University of Science and Technology Beijing; 2 Jinan Iron and Steel Group, China) Finite Element Simulation of Rolling Process for Wide and Thin Bainitic Plate with High Strength
Z073	LI Nan, YANG Caifu, ZHANG Yongquan , et al. (Central Iron and Steel Research Institute, China) Analysis on Section Effect of Controlled Rolling and Controlled Cooling Thick Plate by Finite Element Method
Z108	LI Li, SU Hang, YANG Caifu , et al. (Central Iron and Steel Research Institute, China) Study on Surface Heat Oxidation of Copper-bearing HSLA Steel
Z122	XIANG Song, LIU Guoquan, LI Changrong , et al. (University of Science and Technology Beijing, China) Thermodynamic Model for Precipitation in Low Carbon Steels and Its Application in CSP Process
Z145	CHEN Yu^{1,2}, TANG Guoyi¹, WANG L.H.² , et al. (1. Tsinghua University, China; 2. Wuhan Iron and Steel Corp., China) Thermo-Mechanical Simulation Study on Chromium-bearing Low Carbon Hot-rolled TRIP Steel
Z148	ZENG Yu, WANG Wei (Baosteel Technology Center, China) Modeling of Carbonitride Precipitation in Austenite During Hot Rolling
Z150	ZHANG Pijun^{1,2}, FU Liming², WANG Wei² (1. Northeastern University; 2. Baosteel Technology Center, China) Modeling Study of Soft Impingement Effect on the Isothermal Formation of Ferrite
Z153	ZHAO S.X.¹, WANG W.², MAO D.L.¹ (1. Shanghai Jiaotong University; 2. Baosteel Technology Center, China) Kinetics of Bainite transformation (II) Displacive Model

Products and Applications of HSLA Steels

Z042	LI Zhuang^{1,2}, WU Di¹, HU Rong³ (1. Northeastern University; 2. Institute of Aeronautical Engineering; 3. Jiangxi Normal University, China) The Developments of The Hot Rolled Si-Mn Trip Steel Sheets
Z074	JIA Zhixin^{1,2}, YI Hailong¹, JIAO Jinhua² , et al. (1. Northeastern University; 2. Benxi Iron and Steel (Group) Co. Ltd., China) Development of High Strength with High Toughness Pipe-line Steel at BX Steel
Z076	RONG Shoufan, GUO Jiwei, ZHU Yongchang , et al. (Jiamusi University, China) Making and Application of Mid-carbon Low-alloying A-B steel on Abrasion Resistance Squeezer Plate
Z090	LI Kai¹, CHEN Jianjun², LI Ping¹ (1. Baotou Iron and Steel (Group) Co.; 2. Northeastern University, China) High Hardness Steel Rail Trial Production for Export
Z126	LIU Zhiming, OU YANG Fei, CHENG Xiaowen (Shaoguan Iron and Steel Group Co., Ltd., China) Development of Q345qC Bridge Steel Plate in Shaogang
Z129	SHI Xiaoguang¹, JIANG Qiwu², LIU Rendong¹ , et al. (1. AnShan Iron and Steel Group Co.; 2. An Gang New Steel-Co., LTD., China) Development of High Strength Deep Drawing Cold Rolled Steel Sheets (AIF340) for Automobiles
Z146	CHEN Yu^{1,2}, TANG Guoyi¹, WANG Lihui² , et al. (1. Tsinghua University; 2. Wuhan Iron and Steel Corp., China) Research on Nb-containing Hot-rolling TRIP steel
Z162	LI Jian, GAO Jiaoqiang, WANG Qijiang , et al. (Baoshan Iron and Steel Co., Ltd, China) Analysis of AFM for Precipitate from Heat Resistance Steel
Z165	FENG Yong, LIU Fenglan (Jinan Iron and Steel Co. Ltd., China) Production and Application Effects of High Strength Steel
Z168	HUANG Xiaohu (Taiyuan Iron and Steel (Group) Co., Ltd., China) Research and Development of Hot Rolled Strip Steels for Automotive Frame Application

Map of the Meeting Rooms



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