

Final Program

INTERNATIONAL CONFERENCE ON ADVANCED STEELS 2010

ICAS 2010

November 9-11, 2010
Guilin City, Guangxi, China

Sponsored by

The Chinese Society for Metals
The Iron and Steel Institute of Japan
The Korean Institute of Metals and Materials
The Indian Institute of Metals

Organized by

Central Iron and Steel Research Institute
National Engineering Research Center of Advanced Steel Technology

Co-Sponsored by

The Minerals, Metals & Materials Society, USA

Co-Sponsored by

CITIC-CBMM Microalloying Technology Center
The Vanadium International Technical Committee
International Molybdenum Association

Schedule

Registration desk will be open at 09:00-22:00 on November 8 (Mon)
07:00-08:30 on November 9 (Tue)

November 8 (Mon)		
12:00	Lunch	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
19:30	Reception Dinner	1F-Gui Shui Chinese Restaurant 一楼桂水阁
November 9 (Tue)		
08:30-12:10 13:30-17:20	Plenary Session	3F-Galaxy Conference Hall 三楼银河多功能厅
12:10	Lunch	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
18:30	Banquet	3F-Galaxy Conference Hall 三楼银河多功能厅
November 10 (Wed)		
08:30-12:00	Session 1-A Session 2-A Session 3-A Session 4-A Session 5-A	
12:00	Lunch	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
13:30-18:00	Session 1-B Session 2-B Session 3-B Session 4-B Session 5-B	
	Poster Session	3F-Galaxy Conference Hall 三楼银河多功能厅
18:00	Dinner	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
November 11 (Thu)		
08:30-12:00	Session 1-C Session 2-C Session 3-C Session 4-C Session 5-C	
12:00	Lunch	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
13:30-18:00	Session 1-D Session 4-D Session 4-E Session 5-D	
18:00	Dinner	3F-Water Silk Road Restaurant 三楼水上丝绸之路西餐厅
Meeting Room		
Session 1-(A/B/C/D)	Physical Metallurgy Frontier	3F-Osmanthus Bar 三楼桂花厅
Session 2-(A/B/C)	Auto Sheet Steels	12F-Du Xiu Hall 十二楼独秀厅
Session 3-(A/B/C)	Advanced High Strength Low Alloy Steels	3F-Red Plum Bar 三楼红梅厅
Session 4-(A/B/C/D)	Specialty Steels	12F-Die Cai Hall 十二楼叠彩厅
Session 4-(E)	Specialty Steels	12F-Du Xiu Hall 十二楼独秀厅
Session 5-(A/B/C/D)	Advanced Steel Processing and Fabrication	3F-Chinese Red Bar 三楼紫荆厅

Notice for breakfast

For the participants staying at the Guilin Lijiang Waterfall Hotel, please have the breakfast at Coffee House (2F).

入住漓江大瀑布饭店的宾客，请在本饭店二楼咖啡厅用早餐

入住阳光酒店的宾客，请在阳光酒店一楼金麟餐厅用早餐

Plenary Speakers

(Alphabetically)

BHATTACHARYA, Debanshu
GAN, Yong
KANG, Ki Bong
LI, Xiaobo
MISHRA, Sanak
ORYSHCHENKO, Aleksey Sergeevich

TAKAKI, Setsuo
TSUZAKI, Kaneaki
DONG, Han
XU, Lejiang
XU, Zuyao
ZHANG, Xiaogang

Keynote Speakers

(Alphabetically)

Session 1

HUI, Weijun
LEE, Hu Chul
LIU, Guoquan
NAGAI, Kotobu

TSUJI, Nobuhiro
XIE, Xishan
YONG, Qilong

Session 2

CAO, Wenquan
DEARDO, Anthony J.
EDMONDS, David V.
KIM, Sung Joon
LEE, Young Kook

LI, Lin
MA, Mingtu
PONGE, Dirk
USHIODA, Kohsaku
WANG, Li

Session 3

HODGSON, Peter Damian
KONG, Junhua
MILBOURN, David

MOHRBACHER, Hardy
SHANG, Chengjia
ZHANG, Hongtao

Session 4

ABE, Fujio
CHAI, Guocai
FERREIRA, Paulo J.
FOCT, Jacques
LIU, Zhengdong

SPEIDEL, Markus O.
SVYAZHIN, Anatoly G.
WANG, Lin
WU, Xiaochun

Session 5

FURUHARA, Tadashi
MEI, Dongsheng
RODRIGUEZ-IBABE, Jose Maria

TIAN, Zhiling
WANG, Xinhua
WU, Kaiming

Plenary Session

AM, November 9

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

Chairmen: **Prof. WENG, Yuqing** (The Chinese Society for Metals, China)
Dr. MISHRA, Sanak (The Indian Institute of Metals, India)

08:30	Welcome Address: ICAS 2010 Backgrounds and Steel Technology R&D in CISRI <u>CAI Rang</u> (President, China Iron & Steel Research Institute Group, China)
08:40	Opening Address: Advanced Steel and Our Society: Better Steel, Better World <u>GAN Yong</u> (Vice President, Chinese Academy of Engineering, China)
08:55	Innovative Steels for Low Carbon Economy <u>XU Lejiang</u> (Baosteel Group Co., Ltd., China)
09:30	The State of Steel Industry in India and its Future Prospects <u>Sanak MISHRA</u> (The Indian Institute of Metals; ArcelorMittal, India)
10:05	<i>Coffee Break</i>
10:25	Development and Outlook of Advanced High Strength Steel in Angang <u>ZHANG Xiaogang</u> (Anshan Iron and Steel Group Corporation, China)
11:00	High-Strength Steels: Control of Structure and Properties <u>ORYSHCHENKO A.S., KHLUSOVA E.I.</u> (CRISM FSUE "Prometey", Russia)
11:35	Technical Progress and Product Development of TISCO Stainless Steel <u>LI Xiaobo</u> (Taiyuan Iron and Steel (Group) Co., Ltd., China)
12:10	<i>Lunch</i>

Plenary Session

PM, November 9

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

Chairmen: **Dr. NAGAI, Kotobu** (National Institute for Materials Science, Japan)
Prof. LEE, Hu Chul (Pohang University of Science and Technology, Korea)

13:30	Grain Boundary Carbon Segregation Estimated by McLean and Seah-Hondros Models <u>Setsuo TAKAKI</u> , Nobuo NAKADA, Toshihiro TSUCHIYAMA (Kyushu University, Japan)
14:05	Development of High Strength and High Performance Linepipe and Shipbuilding Steels <u>Ki Bong KANG</u> , Ju Seok KANG, Jang Yong YOO, Dong Han SEO, In Shik SUH and Gyu Baek AN (POSCO, Korea)
14:40	Ultra-high Strength Steel Treated by Using Quenching-Partitioning- Tempering Process <u>XU Zuyao</u> (Shanghai Jiao Tong University, China)
15:15	<i>Coffee Break</i>
15:35	Metallurgical Perspectives on Advanced Sheet Steels for Automotive Applications <u>Debanshu BHATTACHARYA</u> (ArcelorMittal, USA)
16:10	Nano-Precipitates Design with Hydrogen Trapping Character in High Strength Steel Fu-Gao WEI ¹ , Toru HARA ² and <u>Kaneaki TSUZAKI</u> ² (1. YAKIN Kawasaki Co., Ltd., Japan; 2. National Institute for Materials Science, Japan)
16:45	On the Performance Improvement of Steels through M³ Structure Control <u>Han DONG</u> , Xingjun SUN, Wenquan CAO, Zhengdong LIU, Maoqiu WANG and Yuqing WENG (Central Iron & Steel Research Institute, China)
18:30	<i>Banquet</i>

Session I-A

Physical Metallurgy Frontier

➤ Phase Transformation and Precipitation

Coordinator: Prof. WANG, Maoqiu

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AM, November 10

Place: 3F-Osmanthus Bar 三楼桂花厅

Chairmen: **Dr. KANG, Ki Bong** (POSCO, Korea)

Prof. YONG, Qilong (Central Iron & Steel Research Institute, China)

08:30	(Keynote) Dislocation Assisted Phase Transformation Observed in Iron Alloys Yoon-UK Heo ¹ , Masaki Takeuchi ² , Kazuo Furuya ² and <u>Hu-Chul Lee</u> ¹ (Pohang University of Science and Technology, Korea)
08:55	(FR015) Modeling of Bainitic Phase Transformation in High Carbon Steel Wenwen Song, Nicolaus C.F. Francke, Ulrich Prael, Wolfgang Bleck (RWTH Aachen University, Germany)
09:15	(FR042) Nano-indentated Hardness of Bainite Phase in 0.8%C Dual Phase Steels Satoshi Uchida ¹ , Takasi Yamamoto ² , Masayuki Yamamoto ² , Masatoshi Aramaki ³ , Yoshimine Kato ³ , Kyono Yasuda ³ and Osamu Furukimi ³ (1. Tokyo Metropolitan Industrial Technology Research Institute, Japan; 2. Yamamoto Scientific Tools Laboratory Co. Ltd., Japan; 3. Kyusyu University, Japan)
09:35	(FR012) Nanoindentation Behavior of Strain-Induced Martensitic Transformation and Yield Point Phenomenon in Multiphase Steel Tae-Hong Ahn ¹ , Chang-Seok Oh ² , Do Hyun Kim ¹ , Kyu Hwan Oh ¹ , Miyoung Kim ¹ , Hongbin Bei ³ , Easo P. George ³ and Heung Nam Han ¹ (1. Seoul National University, Republic of Korea; 2. Korean Institute of Materials Science, Republic of Korea; 3. Oak Ridge National Laboratory, USA)
09:55	(FR060) Computational Martensitic Transformation Rongshan Qin (Imperial College London, United Kingdom)
10:15	<i>Coffee Break</i>
10:25	(Keynote) Solution and Precipitation of Secondary Phase in Steels: Phenomenon, Theory, and Practice <u>Yong Qilong</u> , Sun Xinjun, Yang Gengwei, Zhang Zhengyan (Central Iron & Steel Research Institute, China)
10:50	(FR048) Development of Accelerated Carbide Spheroidization Process in C45 Steel Daniela Hauserová, Jaromír Dlouhý, Zbyšek Nový, Jozef Zrník (COMTES FHT Inc., Czech Republic)
11:10	(CH077) The Research on Nitride in Low Carbon Steel for Cold-rolled of 1700ASP In An Steel ZHANG Wen, XU Shishuai, GU Chunyang, YAN Dongyu, LIU Wei (The Hot Strip mill of An Gang Steel Company Limited, China)
11:30	(CH209) The Application of Microalloying Elements Mg and B in Special Steel Production and Research on its Mechanisms Lan Jun, Xu Peng (DongBei Special Steel Group Co., LTD, China)
11:50	(FR053) Huge Superelasticity due to γ / α' Martensitic Transformation in Fe-Ni-Co-Al-based alloys Yuuki Tanaka, Toshihiro Omori, Ryosuke Kainuma, Yuji Sutou, Kiyohito Ishida (Tohoku University, Japan)
12:10	<i>Lunch</i>

Session 1-B

Physical Metallurgy Frontier

➤ Deformation and Mechanical Properties

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PM, November 10

Place: 3F-Osmanthus Bar 三楼桂花厅

Chairmen: **Prof. TSUJI, Nobuhiro** (Kyoto University, Japan)

Prof. JIN, Xuejun (Shanghai Jiao Tong University, China)

13:30	(Keynote) Ways to Manage Both Strength and Ductility in Nanostructured Steels Nobuhiro Tsuji (Kyoto University, Japan)
13:55	(FR055) Strength and Impact Toughness of Ultrafine Grained Steels Processed by Warm Tempforming Y. Kimura, T. Inoue, F. Yin, K. Tsuzaki (National Institute for Materials Science, Japan)
14:15	(CH147) On the Strength and Plasticity of Hard Bainite W.J. Liu ¹ and L. Guo ² (1.Northeastern University, China; 2. Liaoning Huadun Sci. and Tech., Inc., China)
14:35	(FR031) Effect of Alloying Elements on the Mechanical Properties of 1470HPF Steel Jinkeun OH, Yeolrae CHO (POSCO Technical Research Laboratories, Korea)
14:55	(FR056) Local Deformation Behavior of Fe-Ni Lenticular Martensite ZHANG Ling ¹ , OHMURA Takahito ¹ , TSUZAKI Kaneaki ¹ , SHIBATA Akinobu ² (1. National Institute for Materials Science, Japan; 2. Tokyo Institute of Technology, Japan)
15:15	<i>Coffee Break</i>
15:25	(CH117) Hot Deformation Behavior of High Strength Steel during Compression at Elevated Temperature Liu Heping ¹ , Lu Xianwen ¹ , Jin Xuejun ¹ , Dong Han ² , Shi Jie ² (1. Shanghai Jiao Tong University, China; 2. Central Iron and Steel Research Institute, China)
15:45	(CH211) Application of Artificial Neural Network in Predicting Mechanical Properties of Steel Liao Shu-lun, Qiao Bing (Dongbei Special Steel Group Co., Ltd, China)
16:05	Poster Session
18:00	<i>Dinner</i>

Session 1-C

Physical Metallurgy Frontier

➤ Fatigue, Delayed Fracture and Microstructure Characterization

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AM, November 11

Place: 3F-Osmanthus Bar 三楼桂花厅

Chairmen: **Prof. TSUZAKI, Kaneaki** (National Institute for Materials Science, Japan)

Prof. XIE Xishan (University of Science and Technology Beijing, China)

08:30	(Keynote) Long Life High Strength Steels to Resist Fatigue Failure and Delayed Fracture Hui Weijun ¹ , Dong Han ¹ , Weng Yuqing ^{1,2} , Shi Jie ¹ , Wang Maoqiu ¹ (1. Central Iron and Steel Research Institute, China; 2. The Chinese Society for Metals, China)
08:55	(FR057) Delayed Fracture Property of 1700-MPa-Class Ultrahigh Strength Steel Akiyama Eiji ¹ , Li Songjie ^{1,2} , Kimura Yuuji ¹ , Tsuzaki Kaneaki ¹ , Uno Nobuyoshi ³ (1.National Institute for Materials Science, Japan; 2.University of Science and Technology Beijing, China; 3. Nippon Steel and Sumikin Metal Products Co, Ltd, Japan)
09:15	(FR001) Evaluation of Delayed Fracture Resistance of High Strength Pearlitic Steels Duk-Lak Lee ¹ , You-Hwan Lee ¹ , Dong-Hyun Kim ¹ , Young-Soo Jeon ² and Chong-Soo Lee ² (1. POSCO, Korea; 2. POSTECH, Korea)
09:35	(CH184) Fatigue Properties and Hydrogen Embrittlement Susceptibility of High Strength Martensitic Steels Wang Maoqiu ¹ , Liu Xiaohong ² , Wu Guangzong ^{1,3} , Shi Jie ¹ , Hui Weijun ¹ , Dong Han ¹ (1.Central Iron and Steel Research Institute, China; 2. Anshan Iron and Steel Co. Ltd., China; 3.Kunming University of Science and Technology, China)
09:55	(FR041) Fatigue Life Improvement by Thermo-mechanical Treatment of 34CrNiMo6 Steel Jan Džugan, Zbyšek Nový, Petr Motyčka, Jana Martinková, Petr Martínek (COMTES FHT Inc., Czech Republic)
10:15	<i>Coffee Break</i>
10:25	(Keynote) Micro-Mechanical Behavior of Inclusions in Advanced Steels Xie Xishan ¹ , Zeng Yanpin ¹ , Wang Miaomiao ^{1,2} , Fan Hongmei ^{1,3} (1. University of Science and Technology Beijing, China; 2. Shanghai Power Equipment Research Institute, China; 3. Shougang Research Institute of Technology, China)
10:50	(FR032) Fatigue Strength in High Strength Steel Sheet with a Punched Hole Toshiyasu Eto ¹ , Naoya Yamada ¹ , Yoshimine Kato ¹ , Masatoshi Aramaki ¹ , Yoshimasa Funakawa ² , Osamu Furukimi ¹ (1. Kyushu University, Japan; 2. JFE Steel Corporation, Japan)
11:10	(FR016) Crystallographic Characteristics of Ferrite and Cementite in Pearlite Norimitsu Koga, Nobuo Nakada, Toshihiro Tsuchiyama, and Setsuo Takaki (Kyushu University, Japan)
11:30	(CH115) Study of Microstructure of one Medium-carbon High Silicon Steel Miao Jun, WANG Lijun, Liu Chunming (Northeastern University, China)
11:50	(FR045) Scale-bridging 4D Characterization Yoshitaka Adachi, Mayumi Ojima, Naoko Sato, Yuan Tsung Wang (National Institute for Materials Science, Japan)
12:10	<i>Lunch</i>

Session 1-D

Physical Metallurgy Frontier

➤ Metallurgical Modeling and Sustainability

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PM, November 11

Place: 3F-Osmanthus Bar 三楼桂花厅

Chairmen: **Prof. LIU, Guoquan** (University of Science and Technology Beijing, China)

Prof. ZHANG, Liwen (Dalian University of Technology, China)

13:30	(Keynote) Long-term Stabilization of Steel Availability under Limited Resources Kotobu Nagai (National Institute for Materials Science, Japan)
13:55	(CH058) Mass Action Concentration Model of CaO-MgO-FeO-Al₂O₃-SiO₂ Slag Systems and Its Application to Thermodynamic Analysis on Formation Mechanism of MgO·Al₂O₃ Spinel Type Inclusion in Casing Steel Tang Haiyan, Li Jingshe, Cheng Guoguang, Guo Hanjie (University of Science and Technology Beijing, China)
14:15	(CH075) Numerical Simulation and Application for Slab EMS in Different Dispositions of Stirring Rolls JIN Baigang ¹ , WANG Jun ¹ , LIU Chun ² , LI Lixun ¹ , CHEN Ming ¹ (1. Angang steel company limited, China; 2. Northeastern University, China)
14:35	(CH109) Applicability Assessment of Phase Transformation Models of Low Carbon Steel in Runout Table CHENG Jiefeng, TANG Guangbo, LIU Zhengdong (Central Iron and Steel Research Institute, China)
14:55	(FR058) Simultaneous Evaluation of Process and Material with Two-scale Finite Element Analysis Ikumu Watanabe ¹ , Kenjiro Terada ² (1. National Institute for Materials Science, Japan; 2. Tohoku University, Japan)
15:15	<i>Coffee Break</i>
15:25	(Keynote) Steels: Data Exploration for Discovery and Data-Sharing Liu Guoquan (University of Science and Technology Beijing, China)
15:50	(CH054) Robust Control Strategy of AGC Based on H_∞ for Hot Strip Finishing Milling Yang Binhu ¹ , Yang Weidong ² , Qu Lei ³ (1. Taiyuan Iron & Steel (Group) Co., LTD, China; 2. University of Science and Technology Beijing, China; 3. Toshiba Mitsubishi-Electric Industrial System(Beijing) Corp., China)
16:10	(CH227) Mechanics of Design and Model Development of CVC-Plus Roll Curve Xu Jianzhong ¹ , Gong Dianyao ¹ , Jiang Zhengyi ² , Liu Xianghua ¹ , Wang Guodong ¹ (1. Northeastern University, China; 2. University of Wollongong, Australia)
16:30	(CH134) 3-D Thermo-Mechanical FEM Simulation on XBXL Rolling Process of Heavy Plate Ruan Jinhua ¹ , Zhang Liwen ¹ , Yue Chongxiang ¹ , Gu Sendong ¹ , He Wenbin ² , Chen Shaohui ² (1. Dalian University of Technology, China; 2. Jiangsu Shagang Group, China)
16:50	(CH193) Cause of Magnetic Mark on Surface of Automobile Crankshaft Qiao Bing (Dongbei Special Steel Group Co., Ltd., China)
18:00	<i>Dinner</i>

Session 2-A
Auto Sheet Steels
➤ **TRIP and DP Steels**

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AM, November 10

Place: 12F-Du Xiu Hall 十二楼独秀厅

Chairmen: **Prof. DEARDO, Anthony J.** (University of Pittsburgh, USA)
Dr. PONGE, Dirk (Max-Planck-Institut für Eisenforschung GmbH, Germany)

08:30	(Keynote) Microstructure and Property Control of Advanced High Strength Automotive Steels <u>LI Lin</u> (Shanghai University, China)
08:55	(Keynote) Design of Lean Maraging TRIP Steels <u>Dirk PONGE</u> , Julio MILLÁN, Dierk RAABE (Max-Planck-Institut für Eisenforschung GmbH, Germany)
09:20	(FR011) Impact of Initial Structure on Deformation Behaviour of TRIP Steel Monitored by in-situ Neutron Diffraction Jozef Zrník ^{1,2} , Ondrej Muránský ³ , Petr Sittner ⁴ , Eduard C. Oliver ⁵ (1.COMTES FHT Inc, Czech Republic; 2. Technical University of Kosice, Slovak Republic; 3.Nuclear Physics Institute, Rez near Prague; 4.Institute of Physics, Czech Republic; 5. ISIS Facility, STCF Rutherford Appleton Laboratory, United Kingdom)
09:40	(FR004) Toughness of Advanced Ultra High-Strength TRIP-Aided Steels with Good Hardenability Koh-ichi Sugimoto, Junya Kobayashi and Daiki Ina (Shinshu University, Japan)
10:00	<i>Coffee Break</i>
10:10	(Keynote) Recent Development of Nb-Containing DP590, DP780 and DP980 Steels For Production on Continuous Galvanizing Lines <u>DeArdo AJ</u> ¹ , Garcia CI ¹ , Shu H ² , Chen TR ³ and Cho K ¹ (1. University of Pittsburgh, USA; 2. Maanshan Iron & Steel Co. Ltd, China; 3. China Steel Corporation, China)
10:35	(Keynote) Microstructure and Mechanical Properties of a TRIP Steel Containing 7 Mass% Mn Seong-Jun Park, Chang-Seok Oh and <u>Sung-Joon Kim</u> (Korea Institute of Materials Science, Korea)
11:00	(CH218) Development of Galvanized High Strength 600Mpa Dual Phase Steel for Automotive Application in BX STEEL Liu Minghui, Chen Lihong, Gao Honggang (Benxi Iron and Steel (Group) Co., Ltd., China)
11:20	(FR007) Transition of High Strength Steel Sheets (HSS) for Automobile in Japan since 1970 Hiroshi Takechi (The Society of Automotive Engineers of Japan, Japan)
11:40	(CH057) Effect of Overaging Temperature on the Properties and Microstructures of High Aluminum Dual Phase Steel Wang Hui, Lin Chengjiang, Deng Zhaojun, Ye Zhongchao, Zhong Dingzhong (Wuhan Iron and Steel Corp., China)
12:00	<i>Lunch</i>

Session 2-B

Auto Sheet Steels

➤ High Strength Steels

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PM, November 10

Place: 12F-Du Xiu Hall 十二楼独秀厅

Chairmen: **Dr. USHIODA, Kohsaku** (Nippon Steel Corp., Japan)

Prof. MA, Mingtu (China Automotive Engineering Research Institute, China)

13:30	(Keynote) Lightweight Car Body and Application of High Strength Steels <u>MA Mingtu</u> ¹ and <u>YI Hongliang</u> ² (1.China Automotive Engineering Research Institute, P. R. China; 2. Pohang University of Science and Technology, ROK)
13:55	(Keynote) Developments in High Strength Steels with Duplex Microstructures of Bainite or Martensite with Retained Austenite: Progress with Quenching and Partitioning (Q&P) Heat Treatment <u>David Edmonds</u> ¹ , <u>David Matlock</u> ² and <u>John Speer</u> ² (1. University of Leeds, UK; 2. Colorado School of Mines, USA)
14:20	(CH120) Effect of Hot Press Forming Process on Microstructure and Mechanical Properties of Boron Steels <u>Mei Zhang</u> ¹ , <u>Kun Han</u> ¹ , <u>Baoliang Sun</u> ² , <u>Guangjie Shao</u> ¹ , <u>Li Wang</u> ³ , <u>Lin Li</u> ¹ (1.Shanghai University, China; 2.Shanghai Huizhong Automotive Manufacturing Co. Ltd., China; 3. Baoshan Iron and Steel Co., Ltd, China)
14:40	(CH216) Precipitation Strengthening in Ultra-high Strength Low Alloy Steels Containing Titanium <u>Shi Jie</u> , <u>Xu Le</u> , <u>Dong Han</u> , <u>Hui Weijun</u> , <u>Wang Maoqiu</u> , <u>Cao Wenquan</u> (Central Iron and Steel Research Institute, China)
15:00	(CH072) Simulation Experiment Research on the Optimum Parameters for Hot Rolled Dual-phase Steel <u>Li Guiyan</u> , <u>Zhao Baochun</u> , <u>Shi Xiaoguang</u> , <u>Cai Xianyue</u> , <u>Yang Jing</u> (AnGang Company Ltd., China)
15:20	<i>Coffee Break</i>
15:30	(Keynote) Challenges toward the Further Strengthening of Sheet Steel <u>K. Ushioda</u> , <u>J. Takahashi</u> , <u>S. Takebayashi</u> , <u>D. Maeda</u> , <u>K. Hayashi</u> (Nippon Steel Corp., Japan)
15:55	(FR018) Influence of Thermomechanical Treatment on the Bainitic Microstructure and Mechanical Properties in 0.22% C High Strength Steels with Different Cr Contents <u>Christoph Keul</u> , <u>Thomas Seibel</u> , <u>Moritz Weidt</u> , <u>Wolfgang Bleck</u> (RWTH Aachen University, Germany)
16:15	(CH084) Stability of Retained Austenite and its Effect on Low-carbon Non-quenched -tempered Martensite Steel <u>Chen Cuixin</u> , <u>Peng Huifen</u> , <u>Liu Ran</u> , <u>Zhao Pu</u> , <u>Ma Xiaoli</u> (Hebei University of Technology, China)
16:35	(FR010) Metallurgical Optimization of Martensitic Steel Sheet for Automotive Applications <u>Hardy Mohrbacher</u> (NiobelCon bvba, Belgium)
16:55	(FR022) Auto-Tempering Behaviour and Its Effect on Mechanical Properties of Ultra High Strength Steel Sheets <u>Hiroshi Matsuda</u> , <u>Reiko Mizuno</u> , <u>Yoshimasa Funakawa</u> , <u>Kaneharu Okuda</u> , <u>Kazuhiro Seto</u> and <u>Yasushi Tanaka</u> (JFE Steel Corporation, Japan)
17:15	Poster Session
18:00	<i>Dinner</i>

Session 2-C

Auto Sheet Steels

➤ High Strength and High Ductility Steels

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AM, November 11

Place: 12F-Du Xiu Hall 十二楼独秀厅

Chairmen: **Prof. LEE, Young Kook** (Yonsei University, Korea)

Dr. WANG, Li (Baoshan Iron & Steel Co., China)

08:30	(Keynote) Microstructure and Mechanical Properties of Al-added High Mn Austenitic Steel Jae-Eun Jin, <u>Young-Kook Lee</u> (Yonsei University, Korea)
08:55	(FR019) Effect of Aluminum Content on the Microstructure of Hypereutectoid Steels Jang Yoon Soo ^{1,2} , M. P. Phaniraj ¹ , Dong-Ik Kim ¹ , Jae-Hyeok Shim ¹ , Moo-Young Huh ² (1.Korea Institute of Science and Technology, Korea;2. Korea University, Korea)
09:15	(FR021) Sequential Transformation of Reverted Austenite during Cold Rolling of Intercritically-Annealed Fe-Ni-Mn Steels H. Shirazi ^{1,2} , M. Nili Ahmadabadi ² , T. Furuhashi ¹ , H. Ghasemi-Nanesa ² , G. Miyamoto ¹ , S. Hossein Nedjad ³ (1.Tohoku University, Japan; 2.University of Tehran, Iran; 3.Sahand University of Technology, Iran)
09:35	(CH185) Investigation into 30GPa% Grade Ultrahigh-strength Martensitic-austenitic Steels Wang Cunyu, Shi Jie, Cao Wenquan, Wang Maoqiu, Hui Weijun, Dong Han (Central Iron and Steel Research Institute, China)
09:55	(FR035) Deformation Behavior of Austenite-Base High Mn Steels Ki Hyuk Kwon ¹ , Yumi Ha ¹ , Il-Cheol Yi ¹ , Chang-Hyo Seo ¹ , Kayoung Choi ¹ , Soon Gi Lee ² , Jong-Kyo Choi ² , and Nack J. Kim ¹ (1. POSTECH, Korea; 2. POSCO, Korea)
10:15	<i>Coffee Break</i>
10:25	(Keynote) The 3rd Generation Automobile Sheet Steels Presenting with Ultrahigh Strength and High Ductility <u>Wenquan CAO</u> , Jie SHI, Chang WANG, Cunyu WANG, Le XU, Maoqiu WANG, Yuqing WENG and Han DONG (Central Iron & Steel Research Institute, China)
10:50	(Keynote) Development and Application of Q&P Sheet Steels <u>Wang Li</u> , Feng weijun (Baoshan Iron & Steel Co., China)
11:15	(FR043) Microstructural Development in Fe-12Mn Steel Il-Cheol Yi ¹ , Ki Hyuk Kwon ¹ , Yumi Ha ¹ , Hakcheol Lee ² , Kyung-Keun Um ² , Jong-Kyo Choi ² , and Nack J. Kim ¹ (1. POSTECH, Korea; 2. POSCO, Korea)
11:35	(FR039) Evaluation of Mechanical Properties in Heat Affected Zones of Fe-8Mn-0.06C Steel Welds Jaehong Yoo ¹ , Sanghoon Kim ¹ , Younghwan Park ² , Changhee Lee ¹ (1. Hanyang University, Korea; 2. POSCO Technical Research Lab., Korea)
11:55	(CH260) Effect of Carbon Content on the Work Hardening of Twinning Induced Plasticity Steels Mingxin Huang ¹ , Olivier Bouaziz ^{2,3} , David Barbier ² (1.The University of Hong Kong, Hong Kong, China; 2. ArcelorMittal Research, France; 3. Centre des Matériaux/Mines Paris, France)
12:15	<i>Lunch</i>

Session 3-A

Advanced High Strength Low Alloy Steels

➤ Strengthening Mechanisms and Pipeline Steels

Coordinator: Prof. YONG, Qilong

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AM, November 10

Place: 3F-Red Plum Bar 三楼红梅厅

Chairmen: **Prof. HODGSON, Peter Damian** (Deakin University, Australia)

Prof. KONG, Junhua (Research and Development Centre of WISCO, China)

08:30	(Keynote) Nanostructural Engineering of TMCP Steels Peter D. Hodgson, Ilana B. Timokhina, Hossein Beladi and Subrata Mukherjee (Deakin University, Australia)
08:55	(Keynote) Mechanical Properties and Microstructure of X80 Hot-rolled Steel Strip for the Second West-East Gas Pipeline Kong Junhua, Zheng Lin, Wu Lixin, Liu Xiaoguo, Li Liwei (Research and Development Centre of WISCO, China)
09:20	(CH108) Modeling and Solution of the Unstable Yield Strength of Hot Rolled of Low Carbon High Niobium Pipeline Steel by an E-lab Rolling System LI Quan ¹ , TANG Guangbo ¹ , LIU Zhengdong ¹ , HU Songtao ² , XUE Wenguang ² , CUI Tianxie ² (1. Central Iron and Steel Research Institute, China; 2. Taiyuan Iron and Steel, China)
09:40	(FR026) Excellent Total Mechanical-Properties-Balance of High Mn-Si Martensitic Steel Toshihiro HANAMURA ¹ , Shiro TORIZUKA ¹ , Akira SUNAHARA ² , Masana IMAGUNBAI ² , Hiroshi TAKECHI ³ (1. National Institute for Materials Science, Japan; 2. Shibaura Institute of Technology, Japan; 3. Society of Automotive Engineers of Japan)
10:00	(CH250) Thermodynamic and Kinetic Analysis of Strain Induced Dynamic Ferrite Transformation during Hot Deformation in Plain Carbon Steel Haiwen LUO (Central Iron & Steel Research Institute, China)
10:20	<i>Coffee Break</i>
10:30	(CH198) Development of X100 Pipeline Plates Using TMCP + Tempering Technology Li Shaopo, Li Jiading, Zha Chunhe, Ding Wenhua (Shougang Research Institute of Technology, China)
10:50	(CH014) Development of Thick-walled API-X80 Pipeline Plates Li Shaopo ¹ , Jiang Zhonghang ¹ , Ma Qingshen ¹ , Bai Xuejun ² (1. Shougang Research Institute of Technology, China; 2. Qinhuangdao Metal Materials, China)
11:10	(CH249) Effect of Deformation and Cooling Rate on Distribution of High Angle Boundaries in High Grade Pipeline Steel with Low Carbon Bainitic Microstructure Miao Chengliang ¹ , Shang Chengjia ¹ , S.V. Subramanian ² (1. University of Science and Technology Beijing; 2. McMaster University, Canada)
11:30	(CH070) Effect of Mo on High Temperature Properties and Microstructure of Ultra High Strength Steel HAN Qihang, KANG Yonglin, ZHAO Xianmeng, Gao Lufeng, Qiu Xuesong (University of Science and Technology Beijing, China)
11:50	(CH248) The Nucleation and Growth of Intragranular Acicular Ferrite in the Heat-Affected-Zone SHU Wei ¹ , WANG Xuemin ¹ , LI Shurui ² , HE Xinlai ¹ (1. University of Science and Technology Beijing, China; 2. Wuhan Iron and Steel (Group) Corp, China)
12:10	<i>Lunch</i>

Session 3-B

Advanced High Strength Low Alloy Steels

➤ Plate Products

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PM, November 10

Place: 3F-Red Plum Bar 三楼红梅厅

Chairmen: **Prof. MOHRBACHER, Hardy** (NiobelCon bvba, Belgium)

Prof. MEI, Dongsheng (Pangang Group Co., Ltd, China)

13:30	(Keynote) MoNb-based Alloying Concepts for Low-carbon Bainitic Steels Hardy Mohrbacher ¹ , Xinjun Sun ² , Qilong Yong ² and Han Dong ² (1. NiobelCon bvba, Belgium; 2. Central Iron and Steel Research Institute, China)
13:55	(Keynote) Vanadium in Bainitic Steels: A Review of Recent Developments Yu Li and <u>David Milbourn</u> (Vanitec Limited, United Kingdom)
14:20	(CH176) Development of JG785E Thickness Steel Plates with High Strength, Toughness and Weld-ability Feng Yong, Liu Fenglan (Jigang Group of Shandong Steel Group, P. R. China)
14:40	(FR040) Development of V-Bearing High Strength Z Bar at ISP, SAIL D Karmakar ¹ , P K Maini ¹ , R K Banerjee ² , P P Sengupta ¹ , B K Jha ¹ (1. Steel Authority of India Ltd. (SAIL), India; 2. IISCO Steel Plant, India)
15:00	(CH223) Research on Surface Quality Control of Continuously Cast Slab for HSLA Chen Yong, Pan Hong, Wu Guorong (PanGang Group Research Institute Co. Ltd., China)
15:20	<i>Coffee Break</i>
15:30	(CH143) Development of High Performance Weather Resistant Steel for Bridge Building Applications Liu Jian, Zhao Liangfeng, Chen Aihua, Chen Shaohui, Li Hualong (Shasteel Co., China)
15:50	(CH244) Study on Direct Quenching Technology of Steel Plate for Large Oil Storage Tanks Xiao Guizhi ¹ , Wang Kuaishe ¹ , Zhu Fuxian ² , Di Hongshuang ² (1. Xi'an University of architecture and technology, China; 2. Northeastern University, China)
16:10	(FR046) Effect of Post Weld Heat Treatment on Low Temperature Properties of A516-70 Pressure Vessel Steel Byoungkoo Kim ¹ , Hwangyo Jung ² , Sootaik Hong ² , and Nack J. Kim ¹ (1. POSTECH, Korea; 2. POSCO, Korea)
16:30	(CH163) Corrosion Performance of MnCuP Weathering Steel in Different Simulated Atmospheric Environments Hao Long, Dong Junhua, Ke Wei (Institute of Metal Research, Chinese Academy of Sciences, China)
16:50	Poster Session
18:00	<i>Dinner</i>

Session 3-C

Advanced High Strength Low Alloy Steels

➤ Plate and Strip Products

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AM, November 11

Place: 3F-Red Plum Bar 三楼红梅厅

Chairmen: **Mr. MILBOURN, David** (Vanitec Limited, UK)

Prof. SHANG, Chengjia (University of Science and Technology Beijing, China)

08:30	(Keynote) Research of Low Carbon Nb-Ti-B Microalloyed High Strength Hot Strip Steels with Yield Strength ≥ 700MPa <u>Zhang Hongtao</u> , Liu Chengbin, Pang Ganyun (Central Iron and Steel Research Institute, China)
08:55	(Keynote) Refinement of Prior Austenite Grain in Advanced Pipeline Steel <u>Shang Chengjia</u> , Miao Chengliang (University of Science and Technology Beijing; USTB-CBMM-CITIC Nb-bearing Steel Research Lab, China)
09:20	(CH153) The Trial-production and Application of Advanced High Strength Complex Phase CP800 Steel Cui Tiancheng, Zheng Lei, Zhang Aiwen (Research Institute of Baoshan Iron & Steel Co. Ltd., China)
09:40	(CH098) Effect of Rare Earth Addition on the Dynamic Recrystallization Behavior of Hot Rolled Low Carbon Steel Based on CSP Process Ren Huiping ¹ , Wang Haiyan ^{1,2} , Jin Zili ¹ , Zong Cui ¹ (1. Inner Mongolia University of Science and Technology, China; 2. University of Science and Technology Beijing, China)
10:00	(CH155) Effects of Rare Earth Elements on Properties of Q345B Steel in CSP Li Tao, Ren Huiping, Jin Zili, Li Xiangqian, Qin meng, Li Weixiao (Inner Mongolia University of Science and Technology, China)
10:20	<i>Coffee Break</i>
10:30	(FR037) Boron Segregation Behavior in the CGHAZ of the Low Alloyed Steel according to Welding Condition Sanghoon Kim, Changhee Lee (Hanyang University, Republic of Korea)
10:50	(CH113) Effect of Boron and Boron-Nickel on Low Temperature Impact Toughness of Hot-Rolled Nb-Added HSLA H-Beams Wang Xiebin ¹ , Wang Zuocheng ¹ , Wang Xiao ¹ , Guo Weimin ¹ , Dong Changxing ² , Gao Junqing ² , Zhao Xiuling ² (1. Shandong University, P. R. China; 2. Laiwu Iron and Steel Company Ltd., P. R. China)
11:10	(CH140) Numerical Simulation for Effect of Inlet Cooling Rate on Fluid Flow and Thermal Distribution in Tundish Qu Tianpeng, Liu Chengjun, Jiang Maofa (Northeastern University, China)
11:30	(CH256) Grain Refinement Mechanisms in Low-carbon Steel Weld Metals X. L. Wan and K. M. Wu (Wuhan University of Science and Technology, China)
12:00	<i>Lunch</i>

Session 4-A

Specialty Steels

➤ Stainless Steels

Coordinator: Prof. LIU, Zhengdong

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AM, November 10

Place: 12F-Die Cai Hall 十二楼叠彩厅

Chairmen: **Prof. FERREIRA, Paulo J.** (The University of Texas, USA)

Prof. DONG, Xuedong (Dongbei Special Steel Group Co., Ltd., China)

- 08:30 **(Keynote) Grain Boundary Hardening and Single Crystal Plasticity in High Nitrogen Austenitic Stainless Steels**
Markus O. Speidel (Swiss Academy of Materials Science, Switzerland)
- 08:55 **(Keynote) High-Nitrogen Steels - The Current State and Development Trends**
Anatoly G. Svyazhin¹, Jerzy Siwka², Ludmila M. Kaputkina¹ (1- National University of Science and technology "MISIS", Russia, 2- Czestochowa University of Technology, Poland)
- 09:20 **(Keynote) Development of Stainless Steels with Superior Mechanical Properties: A Correlation between Structure and Properties in Nanoscale/Sub-micron Grained Austenitic Stainless Steel**
S. Rajasekhara¹, L P. Karjalainen², A. Kyröläinen³, P. J. Ferreira¹ (1. The University of Texas, USA; 2. The University of Oulu, Finland; 3. Outokumpu Stainless Oy, Finland)
- 09:45 **(FR030) Effects of Alloyed Carbon on the Pitting and General Corrosion of High Nitrogen Stainless Steels**
Heon-Young Ha, Tae-Ho Lee, Chang-Seok Oh and Sung-Joon Kim (Korea Institute of Materials Science, South Korea)
- 10:05 *Coffee Break*
- 10:15 **(CH197) State of the Art Stainless Steel Provides Improved Properties for Widely Varying Applications**
Quan Ming SONG¹, David WERT² (1. Carpenter Technology Shanghai, China; 2. Carpenter Technology Corporation, USA)
- 10:35 **(FR027) Austenite Memory in 13Cr-6Ni Martensitic Steel**
Nobuo Nakada, Toshihiro Tsuchiyama and Setsuo Takaki (Kyushu University, Japan)
- 10:55 **(CH108) The Corrosion Resistance of High Chromium Ferritic Stainless Steel**
Lang Yuping, Qu Huapeng, Rong Fan, Chen Haitao (Central Iron & Steel Research Institute, China)
- 11:15 **(CH081) Fatigue Property of a New 2.8GPa Grade Maraging Steel**
Wang Wei, Wei Yan, Yiyin Shan, Zhefeng Zhang, Ke Yang (Institute of Metal Research, Chinese Academy of Sciences, China)
- 11:35 **(CH029) Research on Corrosion and Electrochemical Behaviors of Ultrahigh-Strength Steels**
Zhong Ping, Sun Min (Institute of Aeronautical Materials Beijing, China)

12:00

Lunch

Session 4-B

Specialty Steels

➤ Heat Resistant Steels

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PM, November 10

Place: 12F-Die Cai Hall 十二楼叠彩厅

Chairmen: **Dr. ABE, Fujio** (National Institute for Materials Science, Japan)
Prof. LIU, Zhengdong (Central Iron & Steel Research Institute, China)

13:30	(Keynote) Strengthening Mechanisms in Creep of Advanced Ferritic Power Plant Steels Based on Creep Deformation Analysis <u>Fujio Abe</u> (National Institute for Materials Science, Japan)
13:55	(Keynote) Research and Development of Advanced Boiler Steel Tubes and Pipes Used for 600°C USC Power Plants in China <u>Z.D.Liu</u> ¹ , <u>S.C.Cheng</u> ¹ , <u>H.S.Bao</u> ¹ , <u>G.Yang</u> ¹ , <u>Y.Gan</u> ¹ , <u>S.Q.Xu</u> ² , <u>Q.J.Wang</u> ² , <u>Y.R.Guo</u> ³ , <u>S.P.Tan</u> ⁴ (1. Central Iron and Steel Research Institute, China; 2. Baosteel Co. Ltd., China; 3. Pansteel Croup Chengdu Iron and Steel Co. Ltd., China; 4. Haerbin Boiler Co. Ltd., China)
14:20	(Keynote) Advanced Heat Resistant Austenitic Stainless Steels <u>Guocai Chai</u> , Jan-Olof Nilsson, Magnus Boström, Jan Högberg and Urban Forsberg (Sandvik Materials Technology, Sweden)
14:45	(FR017) Hardening Mechanism of Martensite in 12%Cr steels Alloyed with Carbon or Nitrogen Kinh Luan NGO HUYNH, Toshihiro TSUCHIYAMA, and Setsuo TAKAKI (Kyushu University, Japan)
15:05	(FR034) Microstructure and Mechanical Property of a Martensitic Stainless Steel after Quenching and Partitioning L. Yuan, D. Ponge, D. Raabe (Max-Planck-Institut für Eisenforschung, Germany)
15:25	<i>Coffee Break</i>
15:35	(CH087) Microstructure and Properties of Microalloyed 13Cr Super Martensitic Stainless Steel Ma Xiaoping ¹ , Wang Lijun ¹ , Wang Yuanyuan ¹ , Sundaresa Subramanian ² , Liu Chunming ¹ (1. North Eastern University, China; 2. McMaster University, Canada)
15:55	(CH089) Effect of Carbon Reduction on Nitride-strengthened Reduced Activation Martensitic Steel Yan Wei ¹ , Hu Ping ^{1,2} , Deng Lifen ^{1,2} , Wang Wei ¹ , Shan Yiyin ¹ , Yang Ke ¹ (1. Institute of Metal Research, Chinese Academy of Sciences, China; 2. Graduate School of Chinese Academy of Sciences, China)
16:15	(CH164) Stress Rupture Properties of 9-12%Cr Ferritic/Martensitic Heat Resistant Steels after Long-term Aging at 650°C for 10000h Yin Fengshi, Tian Liqian, Xue Bing, Jiang Xuebo, Zhou Li (Shandong University of Technology, China)
16:35	(CH247) Mechanical Properties of Reduced Activation Ferritic/Martensitic CLF-1 Steel Smelted by Different Processes Xia Zhixin, Zhang Chi ¹ , Yang Zhigang ¹ , Wang Pinghuai ² (1. Tsinghua University, China; 2. Southwestern Institute of Physics, China)
16:55	Poster Session
18:00	<i>Dinner</i>

Session 4-C

Specialty Steels

➤ Tool & Die Steels and Heat Resistant Steels

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AM, November 11

Place: 12F-Die Cai Hall 十二楼叠彩厅

Chairmen: **Dr. CHAI, Guocai** (Sandvik Materials Technology, Sweden)

Prof. WU, Xiaochun (Shanghai University, China)

08:30	(Keynote) New Products and Techniques of Mould Steels Wu Xiaochun, Xu Luoping (Shanghai University, China)
08:55	(Keynote) Research on Large-size Pre-hardened Mould Blocks of Plastic Mould Steels Ma Dangshen ¹ , Wang Lin ² , Kang Aijun ² , Guo Qiang ² , Wang Yongwei ¹ , Chen Zaizhi ¹ , Cao Lihong ² , Zhou Weiji ² , Chen Nailu ³ (1. Central Iron & Steel Research Institute, China; 2. Dongbei Special Steel Group Co., Ltd., China; 3. Shanghai Jiaotong University, China)
09:20	(FR008) A Model to Estimate Microstructural Parameters from High Resolution Dilatometry Data D. San Martín, C. García-Mateo, F. G. Caballero, C. Capdevila and C. García de Andrés (National Centre for Metallurgical Research (CENIM - CSIC), Spain)
09:40	(CH149) Application of Temperature Field Simulation and Artificial Neural Network for Design of Non-quenched Prehardened Steels for Large Plastic Mould Luo Yi, Wu Xiaochun (Shanghai University, China)
10:00	(CH213) Orthogonal Test of Pre-hardening Heat Treatment for Mould Steel LN17 Gu Rong, Ru Yabin, Cao Lihong (Technical Center of Dongbei Special Steel Group CO., Ltd., China)
10:20	<i>Coffee Break</i>
10:30	(CH214) Effect of Nitrogen Content on Precipitation Strengthening of NF709R Austenitic Heat Resistant Steel Bao Hansheng, Liu Zhengdong, Cheng Shichang, Wang Bin (Central Iron & Steel Research Institute, China)
10:50	(CH255) Investigation of Effects of Thermal-mechanical Treatment and Isothermal Treatment on Changes of Microstructure in T91 Steel R. H. Zhang, C. Zhang, Z. X. Xia, Z. G. Yang (Tsinghua University, China)
11:10	(CH194) Smelting P91 Steel Process Applied by Using N2 Replacing CrN Fu Xianqiang, Ma Zhongcun, Xu Haixia, Xie Kuilong and Wang Liuyan (Dongbei Special Steel Group Technology Center, China)
11:30	(CH131) Characterization of Mechanically Alloyed ODS CLAM Steel Powders Lu Chenyang, Lu Zheng, Liu Chunming (Northeastern University, China)
12:00	<i>Lunch</i>

Session 4-D

Specialty Steels

➤ Other Specialty Steels (1)

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PM, November 11

Place: 12F-Die Cai Hall 十二楼叠彩厅

Chairmen: **Prof. FOCT, Jacques** (CNRS Universite Lille 1 France, France)

Dr. TANG, Guangbo (Central Iron & Steel Research Institute, China)

13:30	(Keynote) Unexplored Possibilities of Nitrogen Alloying of Steel Jacques Foct (Universite Lille 1 Laboratoire de metallurgie UMET, France)
13:55	(FR028) Prevention of Hydrogen Permeation by Surface-layer Microstructure Control in Metastable Austenitic Stainless Steel Toshihiro Tsuchiyama ¹ , Hidenori Takebe ² , Koichi Tsuboi ¹ and Setsuo Takaki ¹ (1. Kyushu University, Japan; 2. Sumitomo Metal Industries, Ltd.)
14:15	(CH096) Development of the Integrated Process Modeling System for GCr15 Bearing Steel during Multipass Hot Bar Rolling Tang Guangbo ¹ , Yao Jun ¹ , Liu Zhengdong ¹ , Ma Baoguo ² (1. Central Iron and Steel Research Institute, China; 2. Baoshan Iron & Steel Co., Ltd., China)
14:35	(CH171) Influence of Tungsten and Copper on Microstructure and Mechanical Properties of Super Martensitic Stainless Steel YE Dong ¹ , LI Jun ¹ , LIU Yu-rong ¹ , YONG Qi-long ² , SU Jie ² , CAO Jian-chun ¹ , ZHAO Kun-yu ¹ (1. Kunming University of Science and Technology, China; 2. Central Iron & Steel Research Institute, China)
14:55	(CH196) Hot Working Characteristics of G3 and 825 Corrosion Resistant Alloys BAO Yao-zong ¹ , DONG Han ¹ , SU Jie ¹ , WANG li-hui ² , SU Yu-hua ³ (1. Central Iron and Steel Research Institute, China; 2. Xinxing Pipes Group Company, Ltd., China; 3. Ibaraki University, Japan)
15:15	<i>Coffee Break</i>
15:25	(CH200) High Performance Ferritic Stainless Steel B445R for Architectural Applications Dong Wenbo ¹ , Ma Li ¹ , Zhang Jingcai ² (1. Baosteel Research Institute; 2. Baoshan Iron & Steel Co., Ltd., China)
15:45	(CH202) The Influence of Austenite Deformed Temperature to Room-temperature Microstructure in a GCr15 Bearing Steel Wang Meng, Cui Jingyu, Wang Liping, Wanglifeng, Wang Quanli (Shougang Research Institute of Technology, China)
16:05	(CH233) Experimental Study on High Strength and Toughness Drill Pipe Steel Han Lihong ¹ , Wang Hang ¹ , Jiang Xinyue ² , Han Wei ³ , Chen Changqing ⁴ , Hu Feng ⁵ (1. Tubular Goods Research Institute of China National Petroleum Corporation, China; 2. Bohai NKK Drill pipe Co. Ltd, China; 3. Tonghua Iron & Steel Group Technology Center, China; 4. Bohai equipment group of China National Petroleum Corporation, China; 5. Xi'an Jiaotong University, China)
16:25	(CH182) Development of Ultra-high Strength Stainless Steels subject to Marine Environment Liang Jianxiong, Liu Zhenbao, Xing Changjun, Li Wenhui, Yang Zhiyong (Central Iron and Steel Research Institute, China)
16:45	(CH013) Technology Research on High Pressure Seamless Gas Cylinder Steel 34Mn2V Produced by BOF- CC of Rectangular Section YU Tian-chen ^{1,2} , FAN Lian-ming ² , SONG Man-tang ² (1. Northeastern University, China; 2. Benxi STEEL, China)
18:00	<i>Dinner</i>

Session 4-E

Specialty Steels

➤ Other Specialty Steels (2)

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PM, November 11

Place: 12F-Du Xiu Hall 十二楼独秀厅

Chairmen: **Prof. BAO, Yaorong** (Central Iron & Steel Research Institute, China)

Dr. LANG, Yuping (Central Iron & Steel Research Institute, China)

13:30	(CH093) Modeling of Creep Curve of T91 Heat Resistant Steel by CDM Yun-xiang Chen ^{1,2} , Wei Yan ¹ , Ping Hu ^{1,2} , Wei Wang ^{1,2} , Yi-yin Shan ¹ , Ke Yang ¹ (1. Institute of Metal Research, Chinese Academy of Sciences; 2. Graduate School of Chinese Academy of Sciences)
13:50	(CH187) Effects of Microstructural Characteristics on Mechanical Properties of High Nitrogen Austenitic Stainless Steel Hong Chengmiao ^{1,2} , Shi Jie ^{1,2} , Cao Wenquan ^{1,2} , Dong Han ^{1,2} (1. National Engineering Research Center of Advanced Steel Technology, China; 2. Central Iron and Steel Research Institute, China)
14:10	(CH067) The Effects of Solid Solution Processing on the Microstructure and Ductility of High Chromium Ferritic Stainless Steel H.P. Qu, Y.P. Lang, F. Rong, H.T. Chen, X.F. Kang, C.Q. Yang, H.B. Qin (Central Iron & Steel Research Institute, China)
14:30	(CH031) Development on Microalloyed High Carbon Steel Used for Fracture Splitting Connecting Rods Zhang Xianzhong ^{1,2} , Zhou Guifeng ¹ , Chen Qingfeng ² , Xiong Yuzhang ² , Cai Qizhou ¹ (1. Huazhong University of Science and Technology, China; 2. Wuhan Steel and Iron (Group) Corp., China)
14:50	(CH110) Research on Hot Deformation Behaviors of GCr15 Steel Peng Ningqi, Tang Guangbo, Yao Jun, Liu Zhengdong (Central Iron and Steel Research Institute, China)
15:10	<i>Coffee Break</i>
15:20	(CH079) Study on Cementite Spheroidization of Cold Drawn Pearlitic Steel Wire during Isothermal Treatment Fang Feng ¹ , Qiu Huaxing ¹ , Hu Xianjun ^{1,2} , Chen Shaohui ² , Jiang Jianqing ¹ (1. Jiangsu Key Laboratory of Advanced Metallic Materials, China; 2. Jiangsu Sha-Steel Group, China)
15:40	(CH080) Oxide Scale Growth on High-carbon Steel at High Temperatures Hu Xian-jun ^{1,2} , Chen Shao-hui ² , Gong Dang-guo ¹ , Fang Feng ¹ , Jiang Jian-qing ¹ (1. Southeast University, China; 2. Jiangsu Sha-Steel Group, China)
16:00	(CH258) Effects of Vanadium on Phase Transformation of High Carbon Steel during Continuous Cooling LI Yi, YANG Zhongmin (Central Iron and Steel Research Institute, China)
18:00	<i>Dinner</i>

Session 5-A

Advanced Steel Processing and Fabrication

➤ Processing and Application

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AM, November 10

Place: 3F-Chinese Red Bar 三楼紫荆厅

Chairmen: **Prof. TIAN, Zhiling** (China Iron & Steel Research Institute Group, China)

Prof. RODRIGUEZ-IBABE, Jose Maria (CEIT-IK4 Research Alliance, Spain)

08:30	(Keynote) Study of Weldability of High Nitrogen Stainless Steel <u>Tian Zhiling</u> , Peng Yun, Zhao Lin, Xiao Hongjun, Ma Chengyong (China Iron & Steel Research Institute Group, China)
08:55	(Keynote) Thermomechanical Processing and Role of Microalloying in Eutectoid Steels <u>J.M. Rodriguez-Ibabe</u> , B. López (CEIT and Tecnum (Univ. Navarra), Spain)
09:20	(FR020) Metallurgical and Operational Parameters for the Production of High Strength Structural Steels on a Steckel Plate/Coil Mill Douglas G. Stalheim (DGS Metallurgical Solutions, Inc., USA)
09:40	(FR049) Effect of Asymmetric Rolling on Roping in Ferritic Stainless Steels I.Salvatori (Centro Sviluppo Materiali, Italy)
10:00	(CH097) Study of Surface Cracking during Rough Rolling of Microalloyed Steel Slab after Hot Delivery and Hot Charging TANG Guangbo, LIU Zhengdong (Central Iron and Steel Research Institute, China)
10:20	<i>Coffee Break</i>
10:30	(CH060) Effect of Coiling and Hot-Band Annealing on the Microstructure of Cold-Rolled Non-Oriented Electrical Steel Containing Copper Chen Hailin ¹ , Zeng Yanping ¹ , Cui Huijie ¹ , Li Youguo ² (1. University of Science and Technology Beijing, China; 2. Tsinghua University, China)
10:50	(CH188) Microstructure and Property of As-deposited Metal for HR3C Heat Resistant Steel Ma Cheng-yong ¹ , Dai Qi-lei ² , Peng Yun ¹ , Tian Zhi-ling ¹ (1. Central Iron & Steel Research Institute Group, China; 2. Anhui University of Technology, China)
11:10	(CH222) Laboratory Development of High Strength Steel Plates with Excellent HAZ Toughness at Large Heat Inputs W. Wang, H.R Wang (Baoshan Iron & Steel Co., Ltd, China)
11:30	(CH022) Research Situation and Application of Laser Welding Technology Zhang Wenyu, Hou Shizhong (Luoyang ship material research institute, China)
11:50	(CH146) A Secondary Cooling Control System based on Strand Surface Temperature and Solidification End of Continuous Casting Zhang Jia, Shen Houfa, Huang Tianyou (Tsinghua University, China)
12:10	<i>Lunch</i>

Session 5-B

Advanced Steel Processing and Fabrication

➤ Metallurgy

Coordinator: Prof. PENG, Yun

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PM, November 10

Place: 3F-Chinese Red Bar 三楼紫荆厅

Chairmen: **Prof. SVYAZHIN, Anatoly G.** (Moscow Institute of Steels and Alloys, Russia)

Prof. WANG, Xinhua (University of Science and Technology Beijing, China)

13:30	(Keynote) Study of Non-Metallic Inclusions in High Strength Alloy Steel Refined by using High Basicity and High Al_2O_3 Content Slag <u>Xinhua Wang</u> ¹ , Min Jiang ¹ , Bing Chen ² and Wanjun Wang ¹ (1. University of Science and Technology Beijing, China; 2. Shougang Corporation, China)
13:55	(Keynote) Pangang Rail Production System Innovation and New Products Development <u>MEI Dongsheng</u> (Pangang Group Co., Ltd, China)
14:20	(FR003) Molten Metal-Slag-Refractory Reactions During Converting Process Hady Efendy, Wan Moch. Farid Bin Wan Mochamad (Universiti Teknikal Malaysia (UTeM) Malaka, Malaysia)
14:40	(CH016) Dissolution Behaviour of Al_2TiO_5 Inclusions in $CaO-SiO_2-Al_2O_3$ Slag at 1823K Wang Deyong ¹ , Liu Jun ¹ , Jiang Maofa ¹ , Tsukihashi Fumitaka ² (1. Northeastern University, China; 2. Tokyo University, Japan)
15:00	(CH053) Investigation of Impurity Elements Behaviour in Smelting Ilmenite by Oxygen Enriched Top-blown Smelting Reduction Li Huibin ¹ , Wang Hua ¹ , Qing Shan ¹ , Qi Yilong ¹ , Li Youling ^{1,2} , Zhang Zhuming ^{1,2} , Yang Xuefeng ² (1. Kunming University of Science and Technology, China; 2. Kunming Iron & Steel Co., Ltd., China)
15:20	<i>Coffee Break</i>
15:30	(CH059) Kinetic Study on Deoxidation and Desulphurization of Molten Steel with Calcium Treatment Tang Haiyan, Guo Hanjie, Li Jingshe (University of Science and Technology Beijing, P.R.China)
15:50	(CH073) Investigation on Cleansing the Fine Inclusion in IF Molten Steel due to the Dispersed in-situ Phase Induced by the Composite Ball Explosive Reaction Tang Fuping ¹ , Li Zhen ² , Wang Xiaofeng ² , Lin Yang ² , Wang Rong ² (1. Anshan Iron and steel Group Company, China; 2. The Second Steelmaking Plant, Ansteel Corp. Limited, China)
16:10	(CH183) Control on Oxygen and Nitrogen Content of Low Carbon Low Silicon Cold-rolled Thin Plate Steel Hu Zhigang ¹ , Wang Bao ² , Liu Qing ² (1. Handan Iron and Steel Group Co., Ltd, China; 2. University of Science and Technology Beijing, China)
16:30	(CH231) Experimental Study of Dephosphorization Pretreatment of Hot Metal in Extremely Low Phosphorous Steel Making Lv Yanchun, Wang Wenjun, Wei Shanghai, Liu Yang, Shi Shudong (Shougang Group, China)
16:50	(CH066) Studying on Gas Interchangeability of Heating Furnace of Iron and Steel Enterprise Liang Songbin ¹ , Ren Jianxing ¹ , Li Fangqin ¹ , Deng Wanli ² , Gu Qunying ¹ , Zhong Weijian ¹ (1. ShangHai University of Electric Power, China; 2. Baosteel, China)
17:10	Poster Session
18:00	<i>Dinner</i>

Session 5-C

Advanced Steel Processing and Fabrication

➤ Processing, Microstructure and Quality

Coordinator: Prof. PENG, Yun

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AM, November 11

Place: 3F-Chinese Red Bar 三楼紫荆厅

Chairmen: **Prof. FURUHARA, Tadashi** (Tohoku University, Japan)

Mr. STALHEIM, Douglas G (DGS Metallurgical Solutions, Inc., USA)

08:30	(Keynote) Formation of Ultrafine Grained Ferrite+Cementite Duplex Structure by Warm Deformation <u>Tadashi FuruHara</u> ¹ and Behrang Poorganji ² (1. Tohoku University, Japan; 2. University of Waterloo, Canada)
08:55	(CH235) Deformation Characteristic of Inclusions in Steel Strips during Cold Rolling with Tension Zhang Ming ¹ , Yan Yuxi ² , Zhu Wei ² , Pan Hongliang ² (1. BaoShan Iron &Steel Co. Ltd., China; 2. East China University of Science and Technology, China)
09:15	(CH076) Development of Dynamic Control System for Secondary Cooling of Slab Continuous Casting Tian Yong, Zhang Xiangchun, An Lianqi, Wu Shilong, Liu Wei, Wei Yuan, Wen Tiegung (Angang Steel Co. Ltd., China)
09:35	(CH205) ‘Surface Ultra-fast Cold Cooling’ Process in the Production Practice of Large-size Bar Di Quankang, Wang Quanli, Lu Liyan, Zhou Yuli, Wang Yong, Chen Sihua, Li Ruiyin (Shougang Research Institute of Technology, China)
09:55	(CH069) The Development and Application of Ultra Fast Cooling in Hot-Rolled Ye Xiaoyu, Zuo Jun, Zhang Kaihua (PanGang Group Research Institute Co., Ltd., China)
10:15	<i>Coffee Break</i>
10:25	(CH206) Study on Slag Chemical Composition Change and its Influence during ESR Process ZHAO Junxue, CHEN Yanmei, LI Xiaoming, CUI Yaru, FAN Jun, LU Xiaotao (Xi’an university of Architecture and Technology, China)
10:45	(CH210) Effect of M-EMS on Quality of Continuously Cast Strand of Sulfur Contained Free Cutting Steel Chen Xiujun (Dongbei Special Steel Group Co., Ltd., China)
11:05	(CH212) Research on Degassing Process of High Titanium Nickel-Base Alloy Melted in VIM Furnace Wu Guilin, Dong Jian (Dongbei Special Steel Group Co., Ltd., China)
11:25	(CH006) Flying Eagle Quenching Energy-saving Environmental Protection – ‘Friction Oil Water-cooled’ Dual Liquid Quenching Zhimin-Yao, Zheng Wei-Gang, Wu Ping, Tang Shao-hong (Wuhan University of Technology, China)
11:45	(CH007) Flying Eagle Casting - Casting Method to Prevent the Fault Engineering Training Center Zhou you, Zheng wei-gang (Wuhan University of Technology, China)
12:05	<i>Lunch</i>

Session 5-D

Advanced Steel Processing and Fabrication

➤ Technique

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PM, November 11

Place: 3F-Chinese Red Bar 三楼紫荆厅

Chairmen: **Prof. EL-BEALY, Mostafa O.** (Royal Institute of Technology, Sweden)

Prof. WU, Kaiming (Wuhan University of Science and Technology, China)

- | | |
|-------|---|
| 13:30 | (Keynote) The Influence of Strong Magnetic Field on Alloy Carbide Precipitation in Fe-C-Mo Alloy
Hou Tingping and <u>Wu Kaiming</u> (Wuhan University of Science and Technology, China) |
| 13:55 | (FR002) Air-Water Mist Nozzle for Thermo-Mechanical Rigidity of Continuously Cast Steel Slabs
M. O. El-Bealy (Royal Institute of Technology, Sweden) |
| 14:15 | (FR050) The Marangoni Convection and the Intensification Possibilities for Mass Transfer Processes in Metallurgy
Svyazhin A.G., Kindop V.E. (National University of Science and Technology "MISIS", Russia) |
| 14:35 | (CH020) Study on Process of Heavy Gauge Plate($\geq 25\text{mm}$) with Ultrasonic Inspection in Angang
Wang Sanzhong, Wang Xinzhi, Liu Haiqiang, Gao Xinjun, Wang Feiri (The No.2 steel making-rolling plant of Anyang Iron & Steel Group Co., China) |
| 14:55 | (CH080) Hydraulics Model Experiments and Mixing Mechanism of Ladle Refining by Ultrasonic
Kang Shumei, Shen Minggang, Li Chengwei, Wang Lin, Yang Chunlong (University of Science and Technology Liaoning, China) |
| 15:15 | <i>Coffee Break</i> |
| 15:25 | (CH052) Application of Advanced Electric Automation Technology in Cold Rolled Silicon Steel Continuous Annealing Line
Zhou Wei-dong, Zhang Jia-yi (China iron & steel research institute Group, China) |
| 15:45 | (CH181) Predominance of HIs melt Smelting Reduction Ironmaking Technology in China
Li Huibin ¹ , Wang Hua ¹ , Qing Shan ¹ , Qi Yilong ¹ , Li Youling ^{1,2} , Zhang Zhuming ^{1,2} , Yang Xuefeng ²
(1. Kunming University of Science and Technology, China; 2. Kunming Iron & Steel Co., Ltd, China) |
| 16:05 | (CH002) Study on Lining Board with Bimetal Liquid Composite Casting
Rong Shoufan ¹ , Zhu Yongchang ¹ , Guo Jiwei ¹ , Bian Wenli ² (1. Jiamusi University, China; 2. Zhejiang Water Conservancy and Hydroelectricity Power College, China) |
| 16:25 | (CH003) Duplex Steelmaking in Converter---Processes, Principles, and Problems
Xiangmi YOU (CISDI Chongqing Iron & Steelmaking Plant Integration Co., Ltd., China) |

18:00

Dinner

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(FR013) Grain Refinement of 0.15 wt% Carbon Steel Using Intense Plastic Straining

Jordan Suharto¹, Jae Sik Lee¹, Yeon Jin Gil¹, Kil Young Lim¹, Young Gun Ko¹, In Jun Hwang², Dong Hyuk Shin² (1.Yeungnam University, South Korea; 2.Hanyang University, South Korea)

(FR036) Degradation of Fatigue Property in the Localized Brittle Zone of HSB800 Weld HAZ

Sanghoon Kim¹, Donghwan Kang², Taewon Kim², Jongkwan Lee³ and Changhee Lee¹ (1. Division of Materials Science & Engineering Hanyang University, Korea; 2. School of Mechanical Engineering Hanyang University, Korea; 3.Research Institute of Industrial Science & Technology, Korea)

(CH036) Non-inclusion Induced Crack Initiation of Bainite/Martensite Dual Phase Steels in Very High Cycle Fatigue

GU Jialin, YU Yang, BAI Bingzhe (Tsinghua University, China)

(CH042) Thermal Analysis Techniques and Its Applications in the Study of Metallic Materials

HOU Shizhong (Luoyang Ship Material Research Institute, China)

(CH074) Development and Application of RH Vacuum Refining Control Model

ZHAO Chenglin, WANG Lijuan, LI Degang, ZHANG Weiwei, LI Guangbang (AnSteel Technology Center, China)

(CH082) Effect of Nb on AGS of Non-quenched and Tempered Steel for Hot Forging

Peng jun¹, Zhang Ying-jian², Chen Si-lian², Hui Wei-jun², Dong Han², Xiang Jin-zhong¹ (1.Yunnan University, China; 2.Central Iron & Steel Research Institute, China)

(CH083) Effect of Nb Addition on the Precipitation Behaviour in Microalloyed Medium Carbon Steels

ZHANG Yingjian¹, PENG Jun², CHEN Silian¹, HUI Weijun¹, DONG Han¹ (1. Central Iron & Steel Research Institute, China; 2. Yunnan University, China)

(CH114) The Simulation Study of Directional Solidification Steel Ingot Production by Hollow Side Wall Insulation

Zhenshan Zhang, Minggang Shen, Hailin Wang, Wei He, Liang Zhang (University of Science and Technology Liaoning, China)

(CH139) Effect of Elastic Stress on the Martensite Transformation of Fe-Ni-C Alloy

Lu Xianwen, Liu Heping, Jin Xuejun, Chen Mingming (Shanghai Jiaotong University, China)

(CH189) Fracture Analysis of 140ksi Grade High Strength Casing Coupling

Lou Qi, Du Wei, Han Xinli (CNPC Tubing Goods Research Institute, China)

(CH232) Segregation of P and Mn in Rapid Solidified Carbon Steels

Li Na, Zhang Junwei, Zhai Lulu (University of science and technology Liaoning, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH257) Quenching-Partitioning-Tempering (Q-P-T) Process for Low Temperature Super Bainitic Steel

F. Hu and K. M. Wu (Wuhan University of Science and Technology, China.)

(CH259) Study on Effect of Boron Content on Boron Cold-forging Steel

SHUAI Xiyuan, ZHOU Yong, GUI Meiwen (Wuhan Iron and Steel (Group) Corp, China)

(CH103) Study on Microstructures and Mechanical Properties of a Low Silicon Niobium-bearing TRIP Steel

Wang Bo¹, Han Wen-xi¹, Zhao De-ling² (1. Laiwu Steel Group, China; 2. Economic and Trade Office, Huangzhuang Town Government, China)

(CH186) Texture Evolution of Interstitial Free Steel Deformed by Special Cold Rolling

Chen Weiye, Tong Weiping, Zhao Xiang, Zuo Liang (Northeastern University, China)

(CH236) Research on the Laws of Strain-Hardening and Microstructure Evolution of TRIP/TWIP

Li Jiguang, Zhang Fei, Li Shengli, Peng Xingdong, Li Na (University of Science and Technology Liaoning, China)

(CH237) Analysis on Pressure of Rolling for Cold Rolled TRIP Steels

WANG Lihui^{1,2}, TANG Di², CHEN Yu¹ (1. Wuhan Iron and Steel Group Corp, China; 2. University of Science and Technology Beijing, China)

(CH238) Research on Mechanical Properties and Microstructures on Advanced Si-Al TRIP Steel

CHEN Yu, WANG Lihui (R&D Center of WISCO, China)

(CH063) The Application of Advanced High Strength Steel B700L in Truck Light Weight

Shi Lei, Xiao Hua, Han Fei (BAOSHAN Iron & Steel CO. LTD., China)

(CH091) Microstructure and Property of High Strength High-titanium Bearing Steel Produced by CSP Process

Chen Linheng¹, Kang Yonglin¹, Wen Dezhi², Jiao Guohua², Liu Guomin² (1. University of Science and Technology Beijing, China; 2. Hunan Valin Lianyuan Iron and Steel Co. Ltd, China)

(CH104) Research on Improving Low Temperature Toughness of Shipbuilding S355NL Steel Flange Ring

Zhou Yucheng¹, Wei Shizhong¹, Shi Yulin², Xu Liuji¹ (1. Henan University of Science & Technology, China; 2. CITIC Heavy Industries Co., Ltd., China)

(CH112) Microstructure and Mechanical Properties of a Nb-microalloyed X80 High Deformability Pipeline Steel

Deliang MENG¹, Yonglin KANG¹, Xiaofei ZHENG¹, Shouyong AN², Dianxiu XIA², Hao SUN² (1. University of Science and Technology Beijing, China; 2. Jinan Iron & Steel Co., LTD., China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH141) Development of 690MPa Grade High Tensile Strength Steel Plate with Low Yield Ratio

Hua Yanping, Yang Han, Wang Wei, Zhao Wengui, Chen Shaohui, Zhang Xiaobing, Qu Jinbo (Sha-steel, China)

(CH142) Effects of Rolling Parameters on Microstructures and Mechanical Properties of Hot Rolled DP Steels

Yang Ruiqing, Jia Yuecai, Toshihiko Emi, Chen Shaohui, Li Hualong (Sha-steel Co., China)

(CH144) Effect of Cooling Condition on the Microstructural Characteristics and Mechanical Properties of X100 Pipeline Steels

Zhao Wengui, Wang Wei, Yang Han, Hua Yanping, Chen Shaohui, Zhang Xiaobing, Qu Jinbo (Sha-steel, China)

(CH154) Transformation Characterization during Continuous Cooling of Vanadium and Nitrogen Microalloyed Low Carbon Bainite Steels

Gao Fei^{1,2}, Wang Ruizhen¹, Qian Tiancai² (1. Central Iron and Steel Research Institute, China; 2. Kunming Institute of Technology, China)

(CH158) Influence of Heat Treatment in $\gamma + \alpha$ Region on Microstructure and Mechanical Properties of High Strength Structural Steel

Kang Jian, Wang Zhaodong, Yuan Guo, Wang Guodong (Northeastern University, China)

(CH172) Study of the Solution and Precipitation Dynamics of Carbonitride in Austenite of Nb-Mo Combined Microalloyed Steel

Mi Yongfeng¹, Cao Jianchun¹, Zhou Xiaolong¹, Zhao Dongwei¹, Liu Gangwei¹, Yong Qilong² (1. Kunming University of Science & Technology, China; 2. Central Iron & Steel Research Institute, China)

(CH173) Effect of Carbon Content on the Solubility of Niobium Carbide in Austenite

Mi Yongfeng¹, Cao Jianchun¹, Zhang Zhengyan¹, Qi Haiquan¹, Zhou Xiaolong¹, Yong Qilong² (1. Kunming University of Science & Technology, China; 2. Central Iron & Steel Research Institute, China)

(CH175) Effect of Continuous Annealing Process on Bake Hardening Property of Ultra Low Carbon Bake Hardening Steels

Wang Ruizhen¹, Cui Yan^{1,2}, Wei Xing³, Yong Qilong^{1,2} (1. Central Iron and Steel Research Institute, China; 2. Kunming University of Science and Technology, China; 3. Wuhan Iron & Steel (Group) Corp., China)

(CH201) Influencing Factors on Center Segregation in Continuously Cast Pipeline Steel Slabs

Liu Yang¹, Wang Xinhua², Wang Wenjun¹, Jiang Zhonghang¹ (1. Shougang Research Institute of Technology, China; 2. University of Science and Technology, China)

(CH204) Study on the Weldability of 07MnCrMoVR Extra-heavy Plate

ZHANG Xi, XU Lianghong, CHEN Yanqing, DONG Xianchun, ZHANG Jun (Shougang Research Institute of Technology, China)

(CH217) Development of High Strength Steel Q450NQR1 Used for Railway Truck

WEN Xiaoming (Benxi Iron & Steel Company, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH219) Wear-Resistant Steel Production and Practice in 1700mm Mill of BX-STEEL

Wu Gang (Benxi Iron & Steel Co., LTD., China)

(CH228) Influence of Dehydration-hydration Treatment on the Rust Layer of Weathering Steel

Zhang Xu, Yang Shanwu, He Xinlai (University of Science and Technology Beijing, China)

(CH229) A Study on Rust Layer of Weathering Steel in Coastal Atmospheric Environment with Higher Temperature and Humidity

Xu Longqing¹, Yang Shanwu², Zhang Ming³ (University of Science and Technology Beijing, China)

(CH230) The Strengthening Mechanisms of the Ultra-low-carbon Martensite Steel

Li Hongmei^{1,3}, Zhang Huijie^{2,3}, Sun Lijun¹, Bao Yaozong³ (1. Kunming University of Science and Technology, China; 2. Yunnan university, China; 3. Central Iron & Steel Research Institute, China)

(FR033) Superplastic Forming Characteristics of Dual Phase Alloys

Ho-Sung Lee¹, Jong-Hoon Yoon¹, Joon-Tae Yoo¹, Young-Moo Yi¹, Jong-Soo Kim² and Dong-Kyu Park² (1. Korea Aerospace Research Institute, Korea; 2. Hanil Forging, Korea)

(CH021) Resist Bacteria Stainless Steel Development and Application

Zhang wenyu, Hou shizhong (Luoyang ship material research institute, China)

(CH024) Relationship between Void Sizes and Fracture Toughness in High Co-Ni Ultra-high Strength Steel

Li Jie, Li Zhi, Guo Feng (Beijing Institute of Aeronautical Materials, China)

(CH026) Analysis on Mechanics Performance, Microstructures and Hardenability of 8Cr4MoV Alloyed Forged Super-Deep Hardening Layer Cold Work Roll Steels

Wu Guosheng¹, Hu Shubing², Li Xiao³ (1. Wuhan Iron and Steel (Group) Corporation, China; 2. Huazhong University of Science and Technology, China; 3. Wuhan Engineering Institute, China)

(CH050) Study on Cavitation and Silt Abrasion Resistance of Steels Used in Hydraulic Machinery

Liu Juan, Yu Jiangcheng, Pan Luoping, Lu Li (Institute of Water Resources and Hydropower Research, China)

(CH055) Thermodynamic Calculation and Analysis of Precipitated Phases of ZG1Cr10MoWVNbN Heat-resistant Steel

Tang Heng¹, Zhao ChengZhi¹, Luo Fei¹, Wei ShuangSheng² (1. Harbin Engineering University, China; 2. Harbin Turbine Company Ltd, China)

(CH085) Study on the Solidification Microstructure of AISI M2 High Speed Steel Produced by Continuous Casting

Xuefeng ZHOU¹, Feng FANG¹, Jianqing JIANG¹, Wanglong ZHU², Huixia XU² (1. Southeast University, China; 2. Tiangong Group, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH094) The Creep Deformation Behavior and Microstructure Evolution of High Chromium Ferric Heat Resistant Steel

LIU Junliang¹, SHEN Xixun^{1,2}, GAO Jiaqiang¹, XU Zhou² and SHEN Wei¹ (1. BaoShan Iron & Steel Co., Ltd, China; 2. Shanghai Jiao Tong University, China)

(CH102) The Improvements in Toughness and Wear Resistance to Cold Work Die Steel

CHI Hongxiao^{1,2}, MA Dangshen¹, YONG Qilong^{1,2} (1. Central Iron and Steel Research Institute, China; 2. Kunming University of Science and Technology, China)

(CH124) Recovery Behavior of Cold-deformed CrMnN Austenitic Stainless Steels during Annealing

Xu Mingzhou, Wang Lijun, Wang Jianjun, Liu Chunming (Northeastern University, China)

(CH148) Influence of Silicon Content on the Kinetics of H13 Hot Work Die Steel during Tempering

Zhou Qingchun, Wu Xiaochun, Min Na (Shanghai University, China)

(CH150) Influence of Deep Cryogenic Treatment on Precipitation in the Tempering Process of Cold Work Die Steel by Internal Friction

Li Shaohong, Wu Xiaochun (Shanghai University, China)

(CH151) The Study on Plasma Boriding of H13 Steel at Low Temperature Assisted by High-Energy Shot Peening

Yang Haopeng, Wu Tianrong, Wu Xiaochun (Shanghai University, China)

(CH170) A Study of Mechanism of Intergranular Corrosion of Alloy 690 with EPR Method

Feng Han, Song Zhigang, Zheng Wenjie (Central Iron and Steel Research Institute, China)

(CH179) Evolution of Chromium-depleted Zone of 690 Alloy during Desensitization and Its Kinetics Calculation

Song Zhigang, Feng Han, Zheng Wenjie (Central Iron & Steel Research Institute, China)

(CH199) Effect of Dew of H₂ Atmosphere Furnace on Corrosion Resistance of 430BA Plate

Luo Ming, Luo Suzhen, Huai Kaiwen, Zhao Weifeng (Baosteel Research Institute, China)

(CH215) The Effect of Al and Cr on Microstructure and Impact Strength of Low Thermal Expansion Superalloy of Thermo-Span

SUN Yaru^{1,2}, YU Lianxu² (1. Shenyang University of Technology, China; 2. Institute of Metal Research, Chinese Academy of Sciences, China)

(CH234) Study on the Cleanliness of Crank Steel S34MnV Produced by Double Vacuum

Liu Jianhui¹, Dong Han¹, Zhu Rong², Lin Tengchang², Li Zhizheng² (1. Central Iron and Steel Research Institute, China; 2. University and Science Technology Beijing, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH239) Cold Rolling Process and Mechanical Properties for 430Stainless Steel Strip

Li Jiuwei¹, Li Na² (1. Ansteel Engineering Technology Co., Ltd., China; 2. University of Science and Technology Liaoning, China)

(CH251) Evolution of Non-metallic Inclusions in the Refining Processes of H13 Steel

Li Changrong^{1,2}, Wang Chunqiong¹, Yang Jieming¹ (1. Guizhou University, China; 2. Guizhou Province Key Laboratory for material structure and strength, China)

(CH253) Design of a Kind of Heat-Resistant & Lower Dilatation Steel

He Jingchun, Ma Aiqing, Jing Yinong (Technical Center of Baotou Iron & Steel (Group) Corporation, China)

(CH010) Effect of LF Refining and Calcium Treatment on Inclusions in Liquid Steel

Zhu Wanjuan^{1,2}, Ou Tie^{1,2}, Shen Jisheng², Wang Chunfeng² (1. Wuhan University of Science and Technology, China; 2. Wuhan Iron and Steel Corporation, China)

(CH025) Present Development of Rolling Reheating Furnace Technology in Shougang

CHEN Guan-jun (Shougang Research Institute of Technology, China)

(CH038) Experimental Study on Smelting Process of BOF by Cold Simulation

WU Wei, YANG Libin, ZHENG Congjie, Liu liu (Central Iron and Steel Research Institute, China)

(CH041) The Effects of Composition and Heat Treatment on the Enamellability of Low Carbon Steel

Zhang Aiwen¹, Jiang Zhengyi¹, Jiao Sihai², Sun Quanshe², Wei Dongbin¹ (1. University of Wollongong, Australia; 2. Baoshan Iron & Steel Co., Ltd., China)

(CH048) Analysis of Solidification Behavior about Metal Droplet by High Pressure Gas Atomization

Song Changjiang, Zhang Yunhu, Zhu Liang, Li Kefeng, Yang Min, Zhai Qijie (Shanghai University, China)

(CH071) The Improvement of Thin Slab Continuous Casting-Rolling Production Technology

Feng Shichao, Pan Xiulan, Wang Yanhong, Liang Huizhi (Ansteel Ltd. Technology Center, China)

(CH078) Theoretical Analysis of Cord Steel Wire Rod Decarburizing in Hot Rolling Process

Ren Yuhui¹, Gao Hang², Guo Dayong², Geng Jishuang², Bai Xifeng¹, Zhao Xuebo¹, Wang Bingxi², Cao Yadan², Chang Guihua², Xue Jun² (1. Wire rod plant of Ansteel, China; 2. Technology Center of Ansteel, China)

(CH099) An Investigation of Refinement and Its Mechanism of Primary Silicon in Al-18Si Alloy under a Gradient High Magnetic Field

Jin Fangwei¹, Peng Yongxian¹, Wu Long¹, Wei Maojin¹, Ren Zhongming², Ren Weili² (1. Sanming University, China; 2. Shanghai University, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

(CH122) Investigation on Dissolution Behavior of Non-metallic Inclusions in Tundish Flux for Bearing Steel Continuous Casting

Sun Lifeng^{1,2}, Wang Hongpo¹, Liu Chunlai², Zou Yong², Jiang Maofa¹, and Lin Qizheng² (1. Northeastern University, China; 2. Shanxi Taigang Stainless Steel Cooperation Limited, China)

(CH161) Technology Study of Smelting the Super-Low-Carbon Stainless Steel with VOD Refining Furnace

He Zhijun¹, Bai Bingyang², Jin Yonglong³, Zhang Junhong¹, Liu Jihui¹ (1. University of Science and Technology Liaoning, China; 2. Dalian Special Steel Product Co., Ltd., China; 3. Tangshan Iron & Steel Group Co., Ltd., China)

(CH203) Research of the Surface Cracks on the Thick Rolling Plate

Wang Haibao, Liu Meiyun, Wang Wenjun, Ma Qingshen (Shougang Research Institute of Technology, China)

(CH224) The Technical of Medium and Low Grade Non-oriented Electrical Steel's Rolling Process

LI Zhengrong¹, YE Xiaoyu¹, LI Jun¹, LIU Yong², LUO Ji², LI Weiping² (1. PanGang Group Research Institute Co., Ltd., China; 2. PanGang Group Company Ltd., China)

(CH225) Influence of Total Oxygen Content and Refining Slag Composition on Inclusions in Hard Wire Steel

Li Changrong¹, Wen Hui² (1. Guizhou University, China; 2. Nanjing Iron & Steel United Co., LTD., China)

(CH226) Study on Stepwise Cooling in Hot Strip Mill

Peng Liang-gui¹, Zhang Dian-Hua¹, Liu En-yang¹, Yang Gui-lin², XuFang³, Chen Hua-xin¹ (1. NEU, China; 2. Jinan Steel Group, China; 3. Jingtang Iron and Steel Co. Ltd, China)

(CH242) The Analysis to the Dry Quenching Coke Quality of Masteel's Super-huge Battery

Qiu Quanshan, Wu Yisong, Wang Gaoqiang, Jiang Xuan (Ma'anshan Iron & Steel CO. Ltd, China)

(CH243) Brief Introduction to the 7.63m Battery System of Masteel New Area

Qiu Quanshan, Bi Zhengqing, Wang Tao, Ren Ruifeng, Zhou Yan (Coal-Coking Company of Ma'anshan Iron & Steel CO. Ltd, China)

(CH245) Research to the Tension Leveler of 2130mm Cold-rolling of MA-Steel

Yue Yang (MA-Steel, China)

Poster

**PM, November 10
13:30-18:00**

Place: 3F-Galaxy Conference Hall 三楼银河多功能厅

Line 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	F	F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	R	R	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	0	0	0	0	0	0	0	0	1	1	1	2	2	2	1	1	2	2	2	0	0	1	1	1	1	1
	1	3	3	4	7	8	8	8	1	3	8	3	5	5	0	8	3	3	3	6	9	0	1	4	4	4
3	6	6	2	4	2	3	4	9	9	9	2	7	9	3	6	6	7	8	3	1	4	2	1	2	4	
Line 2	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
	C	C	C	C	C	C	C	C	C	C	C	C	F	C	C	C	C	C	C	C	C	C	C	C	C	
	H	H	H	H	H	H	H	H	H	H	H	H	R	H	H	H	H	H	H	H	H	H	H	H	H	
	1	1	1	1	1	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	5	5	7	7	7	0	0	1	1	2	2	3	3	2	2	2	5	5	8	9	0	2	4	5	5	
4	8	2	3	5	1	4	7	9	8	9	0	3	1	4	6	0	5	5	4	2	4	8	0	1		
Line 3	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
	1	1	1	2	2	2	2	2	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	2	
	7	7	9	1	3	3	5	5	1	2	3	4	4	7	7	9	2	6	0	2	2	2	4	4	4	
0	9	9	5	4	9	1	3	0	5	8	1	8	1	8	9	2	1	3	4	5	6	2	3	5		

The time for pasting: 13:00-13:30

The time for taking back: 18:00-18:30

Presentations

The conference offers speakers Computer Projector required for presentation.

The time for every oral presentation is 20 min, including discussion time of 5 min. As for the keynote speakers, the time is 25 min including discussion.

Notice for Poster

Poster session will be open at 13:30-18:00 on November 10.

All poster session participants are kindly requested to place materials such as pictures, data, graphs, diagrams and narrative text on boards that are usually 0.9m (w) × 1.2m (H). Color figures are recommended.

The time for pasting: 13:00-13:30, November 10

The time for taking back: 18:00-18:30, November 10

The following information is for Chinese:

尊敬的墙报作者：请于以下指定时间段，将墙报张贴到所分配的展板上，并于指定时间段自行回收。会议将安排专门的墙报浏览时间。请墙报作者务必于规定的时间在墙报室与参会代表进行现场交流。

墙报尺寸：0.9m（宽）×1.2m（高）

内容要求：包括论文的前言（Introduction）、实验材料和研究方法（Materials and experimental methods）、实验结果（Results）和讨论（Discussion）等等，主要以数据表格、照片及曲线等信息配以简明的文字，请尽量使用彩色图片。可参考会议秘书处提供的样例制作。

张贴时间：11月10日下午 13:00-13:30

回收时间：11月10日下午 18:00-18:30，逾期不回收，将视为放弃。

Falls

Lijiang Waterfall Hotel, have the upper 72 meters wide, the lower part of 75 meters wide, 45 meters of water a high degree of large-scale man-made waterfalls, Diogenes World records have been included. It is free to everyone and the open time is: 20:30-20:40 every evening.

漓江大瀑布饭店拥有上部宽 72 米、下部宽 75 米、落水高度达 45 米的大型人造瀑布，已列入大世界基尼斯纪录。每晚 20:30 开放，历时 10 分钟，可免费观看。

Tour

The following one-day tour programs will be available during and after the ICAS 2010 Conference. If you are interested in them, please contact Mr. Jiyu ZHOU from China International Travel Services Guilin.



Mr. Jiyu ZHOU
 China International Travel Services Guilin
 Address: 11 Binjiang Road Guilin, 541002, China
 Tel: +86-773-2883866
 Mobile: +86-13978328845
 Fax: +86-773-2803198
 Email: ansonzjy@163.com
 Website: www.guilinmeeting.com

Itinerary 1 (City tour)	
▼08: 00—09: 00	Morning call/Breakfast
▼09: 00—09: 20	Assembling at the hotel gate, then driving to the Elephone Trunk Hill
▼09: 20—10: 00	Visit Elephant Trunk Hill
▼10: 20—12: 20	Visit Fubo Hill and Diecai Hill
▼12: 30—13: 30	Lunch
▼14: 00—14: 10	Assembling at the hotel gate, then driving to the Seven Star Park
▼14: 10—15: 10	Visit Seven Star Park
▼15: 10—15: 30	On the way to Jingjiang Palace
▼15: 30—17: 30	Visit Jingjiang Palace
▼17: 30—17: 45	Back to hotel
Ticket:	
Elephant Trunk Hill	40 RMB/per person
Fubo Hill	18 RMB/per person
Diecai Hill	20 RMB/per person
Seven Star Park	35 RMB/per person
Jingjiang Palace	50 RMB/per person
Coach (33seaters)	80 RMB/per person/full day
Tour Guide	50 RMB/per person
Service charge	20 RMB/per person
Insurance	20 RMB/per person
Quotation (RMB 333 / per person)	

Itinerary 2 (Suburb tour)																	
▼08: 00—09: 00	Morning call/Breakfast																
▼09: 00—10: 00	Assembling at the hotel gate, then driving to the Crown Cave																
▼10: 00—11: 30	Visit Crown Cave																
▼11: 30—12: 00	On the way to GuDong Waterfall																
▼12: 00—13: 30	Lunch																
▼13: 30—15: 30	Visit GuDong Waterfall																
▼15: 30—16: 30	Back to Guilin hotel																
▼16: 30—	free at own leisure																
Ticket: <table> <tr> <td>Crown Cave</td> <td>60 RMB/per person</td> </tr> <tr> <td>Battery bus</td> <td>30 RMB/per person</td> </tr> <tr> <td>GuDong Waterfall</td> <td>60 RMB/per person</td> </tr> <tr> <td>Lunch</td> <td>50 RMB/per person</td> </tr> <tr> <td>Coach (33 seater)</td> <td>80 RMB/per person/full day</td> </tr> <tr> <td>Tour Guide</td> <td>50 RMB/per person</td> </tr> <tr> <td>Service charge</td> <td>20 RMB/per person</td> </tr> <tr> <td>Insurance</td> <td>20 RMB/per person</td> </tr> </table>		Crown Cave	60 RMB/per person	Battery bus	30 RMB/per person	GuDong Waterfall	60 RMB/per person	Lunch	50 RMB/per person	Coach (33 seater)	80 RMB/per person/full day	Tour Guide	50 RMB/per person	Service charge	20 RMB/per person	Insurance	20 RMB/per person
Crown Cave	60 RMB/per person																
Battery bus	30 RMB/per person																
GuDong Waterfall	60 RMB/per person																
Lunch	50 RMB/per person																
Coach (33 seater)	80 RMB/per person/full day																
Tour Guide	50 RMB/per person																
Service charge	20 RMB/per person																
Insurance	20 RMB/per person																
Quotation (RMB 370 / per person)																	

Itinerary 3 (Li River cruise)																	
▼08: 00—09: 00	Morning call/Breakfast																
▼09: 00—10: 00	Assembling at the hotel gate, then driving to the pier																
▼10: 00—14: 00	Li River cruise (having lunch on board) <i>The Li River Cruise ~ is a famous for its picturesque landscapes and scenery. You may see extraordinary peaks, sprays of bamboo lining the riverbanks, fishers in small boats and villages while you cruise along the river.</i>																
▼14: 00—14: 20	On the way to the parking lot by battery bus																
▼14: 20—15: 00	On the way to Silver Cave by coach																
▼15: 00—16: 30	Visit Silver Cave																
▼16: 30—17: 00	On the way back to the town																
▼18: 00—19: 00	Dinner																
▼19: 00—21: 00	Proceed for Liu San Jie show and Watching the show																
▼21: 30—22: 50	Back to hotel in Guilin																
Ticket: <table> <tr> <td>Li River cruise</td> <td>285 RMB/per person (External ship, buffet included)</td> </tr> <tr> <td>Battery bus</td> <td>10 RMB/per person</td> </tr> <tr> <td>Silver Cave</td> <td>50 RMB/per person</td> </tr> <tr> <td>Liu San Jie show</td> <td>168 RMB/per person (general seats)</td> </tr> <tr> <td>Coach (33 seaters)</td> <td>100 RMB/per person/full day</td> </tr> <tr> <td>Tour Guide</td> <td>50 RMB/per person</td> </tr> <tr> <td>Service charge</td> <td>20 RMB/per person</td> </tr> <tr> <td>Insurance</td> <td>20 RMB/per person</td> </tr> </table>		Li River cruise	285 RMB/per person (External ship, buffet included)	Battery bus	10 RMB/per person	Silver Cave	50 RMB/per person	Liu San Jie show	168 RMB/per person (general seats)	Coach (33 seaters)	100 RMB/per person/full day	Tour Guide	50 RMB/per person	Service charge	20 RMB/per person	Insurance	20 RMB/per person
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Tour Guide	50 RMB/per person																
Service charge	20 RMB/per person																
Insurance	20 RMB/per person																
Quotation (RMB 703 / per person)																	

Coordinators

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Prof. WANG, Maoqiu (Mobile: 13501250836)

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