

Conference room Guide

3rd Floor Layout
三楼会议室分布



Fifth Floor Layout
五楼会议室分布



Conference Program

Friday, October 16, 2015 (Day 1)

* Speaker, Chairman of Session, may be part of the change

| Time | Title | Speaker | Chairman |
|-------|---|--|--------------------|
| | Conference Room A: Opening Session & Keynotes (Max. 500 persons) | | |
| 8:30 | Opening Session - Welcome Speech | JiangGuo Lin, Conference Chairman | Prof. JiangGuo Lin |
| 8:40 | 615146 Meeting the automotive industry challenges and evolution of the PHS market. Usibor®1500 offer. | Jurgen Cobbaut (Valin Arcelor Mittal Automotive Steel Co., Ltd. (VAMA)) | Prof. JiangGuo Lin |
| 9:05 | 615122 Updates for development and application of automotive high strength steel in WISCO | L. J. Li; Z. C. Ye (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | |
| 9:30 | 615131 The direct press hardening process for Zn-coated ultra-high strength steels | Daniel (Gestamp TECHNOLOGY, TOOLING & EQUIPMENT) | |
| 9:55 | 615119 Hot forming of medium Mn steels with TRIP/TWIP effects | P. Hodgson; M. H. Cai; B. Rolfe (Deakin University, Victoria, AUS) | |
| 10:20 | Refreshment Break | | |
| 10:40 | 615123 Prediction of thinning behavior for complex-shaped, lightweight alloy panels formed through a hot stamping process | A. D. Foster (Department of Mechanical Engineering, Imperial College London, UK) | Dr. Mingtu Ma |
| 11:05 | 615129 Development of advanced high strength steel and lightweight heat forming technology for automobile sheets | Y. G. Liu; W. Zhang (Auto sheet strategic business unit of Ma'anshan Iron and Steel Company, Ma'anshan, CHN) | |
| 11:30 | 615128 Hot Stamping of Medium-Mn TRIP Steel below 850°C | Qihang Han, Wenzhen Bi, Xinyan Jin, Weili Xu and Li Wang; Jeff Wang; (Research Institute, Baoshan Iron & Steel Co.,Ltd, Shanghai,CHN; China Science Lab,GM Global research & Development, Shanghai, CHN) | |
| 11:55 | Group photo | | |
| 12:30 | Lunch | | |

Friday, October 16, 2015 (Day 1)

| Conference Room B1 (Max. 250 persons): Materials & Testing - Session 1 The Forum of WISCO & Deakin University | | | |
|--|--|---|-------------------|
| 13:30 | 615038 Microcacks in galvanized hot stamping 22MnB5 steel | G. W. Feng; Y. J. Bi; S. Y. Zhou; F. Fang (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | Dr. Yunjie Bi |
| 13:50 | 615118 Understanding wear conditions during hot stamping | M. P. Pereira; A. Abdollahpoor; B. F. Rolfe (Deakin University, Victoria, AUS); P. Zhang; C. Wang (Hefei University of Technology, Hefei, CHN) | |
| 14:10 | 615052 Research on tailored mechanical properties of different non-boron alloyed steels by hot stamping | R. Ge; S.Y. Zhou; Y. J. Bi (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN); P. Lin; Z. H. Liu (Dongfeng Die and Stamping Technologies Corp., Wuhan, CHN) | |
| 14:30 | 615116 Experimental investigation of the tailored hot stamping parts | A. Abdollahpoor; M. P. Pereira; B. F. Rolfe (Deakin University, Victoria, AUS); Z. J. Wang; Y. S. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 14:50 | 615126 Selective oxidation behaviors of a DP780 steel during hot-dip galvanizing process | F. Huang; Y. Chen; F. Fang; X. F. Du; F. Y. Sun; L. B. Pan (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN); F. Huang (Wuhan University of Technology, Wuhan, CHN) | |
| 15:10 | 615022 Microstructure and mechanical properties of Fe-18Mn-10Al-1.2C steel | D. Han; H. Ding; Z. H. Cai; Z. Q. Wu; J. Zhang (Northeastern University, Shenyang, CHN) | |
| 15:30 | Refreshment Break | | |
| 15:50 | 615042 Coating quality of hot dipped steel with different zinc bath chemistries and air knife flow rates | F. Fang; Y. M. Chen; J. W. Li (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN); G. Wang (China,Dongfeng Peugeot Citroen Automobile Company Ltd., Wuhan, CHN) | Dr.Bornarde. Rolf |
| 16:10 | 615007 Experimental study on PHS1500 hot formed steel by surface modification | H. L. Liu; J. Huang; X. G. Wang; H. J. Kang; H. G. Gao (Research Institute of Plate Productes, Bengang Steel Plates Co., Ltd., Benxi, CHN) | |
| 16:30 | 615040 Strain rate sensitivity of a ferrite and martensite dual phase steel | Q. S. Wu; X. Wei; Y. L. Wang (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN); L. Q. Heng (Dongfeng Motor Corporation, Wuhan, CHN) | |
| 16:50 | 615011 Development of high strength boron alloyed steel | J. C. Jin; H. R. Gu; Y. G. Liu; W. Zhang; H. Zhan; Y. Y. Ji (Auto sheet strategic business unit of Ma'anshan Iron and Steel Company, Ma'anshan, CHN) | |
| 17:10 | 615043 Research and development of self-lubricated galvanized steel sheet for automobile. | R. Du; Y. Q. Tu; Z. H. Lei; H. P. Bai; Y. F. Song; D. B. Huang (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | |
| 17:30 | 615033 Elevated plastic flow behavior of high strength boron steel based on the modified Zerilli-Armstrong model | J. Lu; L. Hua; Y. L. Song; J. N. Liu; Y. Han (Wuhan University of Technology, Wuhan, CHN) | |
| 17:50 | End of day 1 | | |

Friday, October 16, 2015 (Day 1)

* Speaker, Chairman of Session, may be part of the change

| | Conference Room B2 (Max. 250 persons): Equipment manufacturers Forum | | |
|-------|---|--|---------------------|
| 13:30 | Sophisticated Tool Steels for Hot Stamping Applications | Reinhard Rahn and Ingolf Schruff (Kind Special Alloys Asia Ltd) | Prof. Yisheng Zhang |
| 14:00 | Latest state of furnace technology for heat treatment at press hardening, | Harald Lehmann (Schwartz Heat Treatment Systems Asia (Kunshan) Co.,Ltd) | |
| 14:30 | Key to the future - Schuler Advanced Hot forming Technology | Bill Bei (Schuler Sales & Service Co.,Ltd.) | |
| 15:00 | Application of laser processing technology in the field of hot forming and new breakthrough | Pei Jin (Prima Power, beijing ,China) | |
| 15:30 | Refreshment Break | | |
| 15:50 | The latest research and development of the application of servo direct drive press in the field of hot stamping | Aitor Ormaetxea (FAGOR ARRASATE) | |
| 16:20 | An overview of temperature assisted forming of aluminum and steel | Martin Skrikerud (AP & T) | |
| 16:50 | The importance of automatic equipment | OYABE SEIKI Corp., Ltd | |
| 17:20 | 3D Laser Cutting Robot Solutions : Innovative Application in Hot Stamping Pieces | Zhiqing Zhen (Stäubli (Hangzou) Mechatronics Co. Ltd.) | |
| 17:50 | New trends of Laser applications for press hardening parts manufacturing | Dr. Joe Ji (TRUMPF (China) Co., Ltd.) | |
| 18:20 | End of day 1 | | |

Friday, October 16, 2015 (Day 1)

| | Conference Room C1 (Max. 120 persons): Modeling & Simulation | | |
|-------|--|--|------------------|
| 13:30 | 615088 Numerical simulation and experimental verification of aluminum alloy tensile behavior at elevated temperature | Y. Liu; Y. G. Zhu; L. Ying; P. Hu (Dalian University of Technology,CHN) | Prof. F. K. Chen |
| 13:50 | 615090 The research on carbon partition model and calculation of Q&P steel | H. Chen; C. N. Jing; X. Y. Feng; K. L. Qiu (Shandong Jianzhu University,CHN) | |
| 14:10 | 615035 Function relationship between structural characteristics of automotive beam parts and wrinkling in hot stamping | Y. H. Shen; Y. L. Song; L. Hua; L. Yang; Z. X. Lv (Wuhan University of Technology,CHN) | |
| 14:30 | 615120 Finite element simulation for hot stamping of automobile pillar inner panel | F. X. Jin; Z. Shen; Y. Bian; Z. P. Zhong (Beijing Research Institute of Mechanical and Electrical Technology,CHN) | |
| 14:50 | 615012 Dynamic deformed behavior and optimization design of high strength steel TWB structures | F. X. Xu (Wuhan University of Technology, CHN) | |
| 15:10 | 615048 Resistance spot welding test of 1300HF hot forming steel | Y. H. Hu; Z. J. Huang; R. Ge; J. G. Hu (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | |
| 15:30 | Refreshment Break | | |
| 15:50 | 615087 Multi-objective optimization for school bus rollover safety with hot-formed steel side structures | Y. Yu; K. Hu; L. Ying; W. B. Hou; P. Hu (Dalian University of Technology, CHN) | Dr. Guangying Li |
| 16:10 | 615006 FEM simulation analysis of the effect of air gap on spot induction hardening process | Y. Wang; Z. Wang; X. P. Qin; K. Gao (Wuhan University of Technology, CHN) | |
| 16:30 | 615030 Inverse method to investigate thermal behavior for hot stamping | C. Wang (Wuhan University of Technology, CHN) | |
| 16:50 | 615086 Inverse estimation of interfacial heat transfer coefficient between blank and die in hot stamping | B. He; L. Ying; P. Hu (Dalian University of Technology, CHN) | |
| 17:10 | 615145 Numerical simulation on cooling system of hot stamping mold In B- Pillar | G. J. Chen; Y. Zhang; W. Shen; L. J. Qin; N. Deng (Dongguan Vision Hot Stamping Technology Co.CHN) | |
| 17:30 | 615004 Application of high strength cold-formed steel in bus body structural lightweight | H. H. Luo; Z. Z. Liu (R & D Center of Wuhan Iron and Steel (Group) Corp., Wuhan, CHN); J. G. Ruan; Y. C. Wan; S. W. Zhu (WISCO JIANGBEI COLD-FORMED CO. LTD, Wuhan, CHN) | |
| 17:50 | End of day 1 | | |

Saturday , 17th October, 2015. (Day 2)

* Speaker, Chairman of Session, may be part of the change

| Time | Title | Speaker | Chairman |
|-------|--|--|--------------------|
| | Conference Room A: Keynotes (Max. 500 persons) | | |
| 8:00 | 615130 An overview of temperature assisted forming of aluminium and steel | Martin. Skirkerud; C. Koroschetz (AP&T, Ulricehamn, SWE) | Dr. B. F. Rolfe |
| 8:25 | 615024 Tribology in hot stamping of boron steel sheets | S. Bruchi; A. Ghiotti; F. Medea (University of Padova, Padova, ITA) | |
| 8:50 | 615110 Research on high strength steel hot stamping technology and equipment | Y. L. Wang; B. Zhu; Y. S. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 9:15 | 615027 Recent developments and challenges in hot stamping of high strength steels | J. P. Lin; F. F. Li (Tongji University, Shanghai, CHN); J. Y. Min (Ruhr-Universität Bochum, Bochum, GER) | |
| 9:40 | 615001 Tendency of heat treatment of large workpieces: novel ATQ technology | X. W. Zuo; N. L. Chen; Y. H. Rong (Shanghai Jiao Tong University, Shanghai, CHN) | |
| 10:05 | Refreshment Break | | |
| 10:25 | 615137 Experimental platform development and forming die design for hot stamping process | F. K. Chen; T. H. Hung; C. S. Lee (National Taiwan University, Taipei, TWN); C. H. Hung(National Chiao Tung University, Hsinchu, TWN); T.B. Huang; P. K. Lee (St. John's University, New Taipei City, TWN) | Prof. S. Bruchi |
| 10:50 | 615117 Advances in tailored hot stamping – innovations in material and local patchwork topology | B. F. Rolfe; A. Abdollahpoor; M. P. Pereira; H. Kong; E. Pavlina; M. Cai; D. Fabijanic (Deakin University, Victoria, AUS); K. Hu; R. Han; L. Pan; Y. Bi (Research and Development Center of WISCO., Wuhan, CHN); Z. Wang; Y. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 11:15 | 615034 Optimal design and hot stamping of B-pillar reinforcement panel with variable strength based on side impact | Y. L. Song; Y. Han; L. Hua; J. Lu; C. Yu (Wuhan University of Technology, CHN) | |
| 11:40 | 615121 Advanced design of continuous furnace for hot stamping line | B.Dvorak; J.J.Tawk (Automotive design, Benteler Mechanical engineering, Liberec, CZE); T. Vit (Technical University of Liberec, Liberec, CZE) | |
| 12:10 | Lunch | | |

Saturday , 17th October, 2015. (Day 2)

* Speaker, Chairman of Session, may be part of the change

| Conference Room B1 (Max. 250 persons): Materials & Testing - Session 2 The Forum of WISCO & Deakin University | | | |
|--|---|--|--------------------|
| 13:30 | 615132 Impact of alloying design on the crash relevant material properties of press hardening steel based on Mn-B concept | J. Bian (Niobium Tech Asia; SGP); H. Z. Lu; W. J. Wang (CITIC Metal; Beijing; CHN) | Dr. Zhongchao Ye |
| 13:50 | 615046 Effect of boron on microstructure and texture of interstitial free steel. | Z. F. Wang; L. X. Wu; S. B. Zhou; R. D. Han; H. E. Huang (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | |
| 14:10 | 615029 Researches on the stamping performance of dual phase steel in tailor welded blanks | G. C. Liu (Wuhan University of Technology, CHN); F. Li; H. C. Zhu (Research and Development Center of Wuhan Iron and Steel (group) Corporation, Wuhan, CHN); G. Wang (DEPA of Dongfeng Peugeot Citroen Automobile Company LTD, Wuhan, CHN) | |
| 14:30 | 615114 Research on microstructure property and crack propagation behavior of cold-rolled hot dip galvanized DP780 dual phase steel | S. Kuang; X. M. Qi; Y. Han; W. L. Yu (Shougang Research Institute of Technology, Beijing, CHN) | |
| 14:50 | 615115 Research on the microstructures and mechanical properties of two kinds of cold rolled DP980 steels | Y. Han; S. Kuang; X. M. Qi; C. Q. Xie; H. S. Liu; G. H. Lin (Shougang Research Institute of Technology, Beijing, CHN) | |
| 15:10 | 615068 The effect of various process patterns on strain-fatigue property of DP780 steel-experiments and simulations | Y. Zhao; M. T. Ma; G. Y. Wang; Y. C. Ling; G. Fang; X. M. Wan (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 15:30 | Refreshment Break | | |
| 15:50 | 615021 Microstructures and mechanical properties of a martensitic stainless steel sheet for hot stamping with higher strength-ductility | L. J. Wang; C. M. Liu (Northeastern University, Shenyang, CHN) | Prof. Lingxue kong |
| 16:10 | 615077 Study on mechanical properties and failure modes of hot forming steel under different strain rates | G. Fang; J. P. Zhang; Q. S. Jin (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 16:30 | 615089 EBSD analysis of laser welded joints for dissimilar steels with different thicknesses | C. N. Jing; H. Chen; J. C. Fan; P. Liu; H. X. Li (Shandong Jianzhu University; Jinan; CHN) | |
| 16:50 | 615148 Analysis on experimental techniques for generating FLD at elevated temperatures | Z. Shao; N. Li; D. J. Politis; Q. Bai; J. Lin (Imperial College London, London, UK) | |
| 17:10 | 615039 Continuous cooling transformation of 1500 Mpa grade hot stamping steel | W. Y. Liu; K. H. Hu; G. L. Yuan; J. P. Zheng (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN) | |
| 17:30 | 615148 A New Invention of Press-hardened Steel Achieving 1880MPa Tensile Strength Combined with 16% Elongation in Hot-stamped Parts | H.L.Yi, P. J. Du and X.C. Xiong (The State Key Laboratory of Rolling and Automation, Northeastern University, CHN) | |
| 17:50 | End of day 2 | | |

Saturday , 17th October, 2015. (Day 2)

* Speaker, Chairman of Session, may be part of the change

| Conference Room C1 (Max. 120 persons): Tribology and Tools materials | | | |
|--|---|--|------------------|
| 13:30 | 615138 Development of a friction testing apparatus and friction behavior of boron steels with different surface coatings | C. H. Hung; W. L. Lo (National Chiao Tung University, Hsinchu, TWN); T. H. Hung; H. K. Tsai; F. K. Chen (National Taiwan University, Taipei, TWN); S. W. Wang (China Steel Co., Kaohsiung, TWN) | Prof. S. Bruchi |
| 13:50 | 615015 Simulation of tool shape change due to wear under press hardening conditions | L. Deng; M. Oldenburg; S. Mozgovoy (Luleå University of Technology, Luleå, SWE) | |
| 14:10 | 615133 Experimental study on fatigue phenomena of hot working tools with CrN coating | P. Hu; Y. L. Si; L. Ying; C. Zhao; B. He (Dalian University of Technology, Dalian, CHN) | |
| 14:30 | 615141 The influence of Re glow ionitriding on abrasion resistance of H13 mould material | M. T. Ma; Z. F. Sun; X. C. Yao; W. Shen; L. F. Song (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 14:50 | 615142 The influence of Re glow ion nitriding on hot fatigue properties of H13 die steel | M. T. Ma; Z. F. Sun; X. C. Yao; W. Shen; L. F. Song (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 15:10 | 615104 Mechanical link servo press on hot stamping production line | Q. Wang; L. Wang; Y. S. Zhang (Huazhong University of Science and Technology; Wuhan; CHN); L. M. Yao; Z. M. Ke (Xuzhou Metalforming Machine Group; Xuzhou; CHN) | |
| 15:30 | Refreshment Break | | |
| 15:50 | 615028 Robot-based automatic dimension inspection for hot stamping parts | L. Y. Han; Z. W. Li; K. Zhong; G. M. Zhan (Huazhong University of Science and Technology, Wuhan, CHN); Y. J. Huang (Wuzhou University, Wuzhou, CHN); G. Yang; M. Zhou (Wuhan University of Science and Technology, Wuhan, CHN) | Prof. Kaiming Wu |
| 16:10 | 615099 Investigate of the mechanical and heat transfer performance of high strength steel hot stamping power fitting products | Y. M. Jin; Z. J. Wang; Y. S. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 16:30 | 615003 Controlling spring back of high-strength steel based on shape adjustable bead | C. Y. Wang; X. Y. Zhang; C. Dai; S. Y. Wang; F. F. Guo (Hefei University of Technology; Hefei; CHN) | |
| 16:50 | 615094 Experimental study of hot deep drawing of 5754 aluminum alloy sheets | S. B. Yin; Y. X. Liu; Y. L. Wang (Harbin Institute of Technology at Weihai, Weihai, CHN) | |
| 17:10 | 615147 The cold bending cracking analysis of hot stamping door bumper | M. T. Ma; Y. Zhao (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN); H. Z. Lu; J. Bian; A. M. Guo (CITIC Metal Co., Ltd., Beijing, CHN); Z. F. Sun (New Materials Engineering Center of Chongqing, Chongqing, CHN) | |
| 17:30 | 615071 Performance evaluation of hot pressed front bumper | J. P. Zhang; L. F. Song; G. Y. Wang; M. T. Ma (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 17:50 | End of day 2 | | |

Saturday , 17th October, 2015. (Day 2)

* Speaker, Chairman of Session, may be part of the change

| | Conference Room C2 (Max. 120 persons): Process design | | |
|-------|---|--|---------------|
| 13:30 | 615002 Research on hot stamping process for ultra-high strength steel with high product of strength and plasticity | S. S. Chen; X. H. Han (Shanghai Jiao Tong University, Shanghai, CHN); Y. Y. Zhong (SAIC Motor Technical Center, Shanghai, CHN) | Prof. Ping Hu |
| 13:50 | 615127 Advanced hot forming treatment AHFT technology for high-strength-ductility Auto-Parts | G. Y. Li (Central Iron & Steel Research Institute; CISRI, Beijing, CHN); H. Li (Beijing University of Technology, Beijing, CHN) | |
| 14:10 | 615112 Trial production of tailored hot stamping side impact beam | Y. Chen; H. Dong; C. Y. Wang (East China of Central Iron & Steel Research Institute (CISRI), Beijing, CHN) | |
| 14:30 | 615064 Optimization design of side collision performance in whole car based on advanced hot stamping | Y. C. Ling; T. Q. Fan (China Automotive Engineering Research Institute Co., Ltd., Chongqing, CHN) | |
| 14:50 | 615107 Making uniform quenching and partitioning treatment during hot stamping process | Z. D. Dong; P. X. Liu; B. Zhu; Y. L. Wang; Y. S. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 15:10 | 615059 Investigation of hot-stamping to manufacture an automotive B-Pillar with strength of 1500MPa and its finite element analysis | X. Wei; R. Ge; Y. Q. Sun L. B. Pan (Research and Development Center of Wuhan Iron and Steel (Group) CORP., Wuhan, CHN); J. H. Mo (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 15:30 | Refreshment Break | | |
| 15:50 | 615134 Mold cooling system design and analysis of M-type hot forming parts | X. G. Li; S. Yao; A. M. Zhao(University of Science and Technology Beijing, Beijing, CHN); N. Zhao; Q. Chen; J. W. Yang (Shougang Research Institute of Technology, Beijing, CHN) | Prof.Lin Hua |
| 16:10 | 615139 Investigation of interface heat transfer coefficient in hot stamping processes | T. B. Huang (St. John's University, New Taipei City, TWN); T. H. Hung; F. K; Chen; W. T. Lin (National Taiwan University, Taipei, TWN); C. K. Chiu Huang (China Steel Co., Kaohsiung, TWN) | |
| 16:30 | 615140 A Study on cooling system design for hot stamping tools | T. H. Hung; C. K. Liu; F. K. Chen(National Taiwan University, Taipei, TWN); P. K. Lee; S. W. Wang (China Steel Co., Kaohsiung, TWN) | |
| 16:50 | 615101 Investigation on influence of rapid heating on austenitization of ultra-high strength steel | W. J. Tao; W. K. Liang; Y. S. Zhang (Huazhong University of Science and Technology, Wuhan, CHN) | |
| 17:10 | 615092 Temperature characters for 6063 aluminum tube within resistance heating process for hot gas forming | G. N. Chu; M. Q. Ding; G. Liu (Shandong Jianzhu University, Jinan, CHN) | |
| 17:30 | 615085 Investigation on formability of high strength aluminum sheet AA7075 with HFQ process | L. Ying; X. Z. Liu; Q. Y. Yan; P. Hu (Dalian University of Technology, Dalian, CHN) | |
| 17:50 | End of day 2 | | |