

2014 International Conference on Hot Stamping of UHSS

August 21-22, 2014, Chongqing, China

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

Thursday, August 21, 2014			
Time	Title	Speaker	Chairman
Conference Room A (Max. 250 persons)			
8:30	Opening Session - Welcome Speech	Mingtu Ma Phd.	
8:40	Opening Speech	Leader of CAERI	
8:50	Research and Progress of Hot Stamping In China	Mingtu Ma (CAERI,China), Y.S.Zhang, L.F.Song, Y.L. Wang.	Han dong Phd.
9:30	Martensitic automotive steel sheet - Fundamentals and metallurgical optimization strategies	Hardy Mohrbacher NiobelCon bvba, Schilde, Belgium	
10:00	Thermo-mechanical forming analysis and mapping of material properties in press hardened component with tailored material properties	Greger Bergman, Daniel Berglund and Kenneth Isaksson, GESTAMP, Sweden	
10:30	Refreshment Break		
11:00	Warm stamping of the 3rd generation sheet steel for automobiles	Han Dong , Wenquan Cao,etc. CISRI, China	Mingtu ma Phd.
11:30	Robustness of the tailored hot stamping process	Bernard Rolfe , Amir Abdollahpoor, Xiangjun Chen, Namin Xiao, Michael Pereira, Deakin University	
12:00	Research Status of Advanced Hot forming Technology	Weili Xu , Z.B. Huang, Y.H. Wan. BaoSteel, China	
12:30	Lunch		
Conference Room B : Materials, testing and Application (Max. 100 persons)			
13:30	Development of Niobium Alloyed Press Hardening Steel with Improved Properties for Crash Performance	Jian Bian , Wang Li, Hardy Mohrbacher, Lu Hongzhou and Wang Wenjun, Niobium Tech Asia, Singapore	Kaiming Wu Prof.
13:50	Simulation study on the austenisation and cooling behaviors of the medium-Mn steel	Silian Chen, Yaorong Bao , Han Dong, Wenquan Cao, CISRI,China	
14:10	Microstructure development and mechanical properties of a hot stamped low-carbon advanced high strength steel treated by a novel dynamic carbon partitioning process	Feibao Zhang, Hongwu Song, Ming Cheng, Xin Li, Shihong Zhang, Weijie Liu, IMR, China	
14:30	A Study on High speed tension property of bullet proof steel	M. T. Ma , Y. Zhao, G. Fang, Y. Feng, CAERI, China	
14:50	Hot Stamping Technology For Door Impact Beam	Chun-Hau Tseng ,Ming-Fu Li, Kuan-Yu Su, Kai-Min Tang. MIRDC,Taiwan	
15:10	Martensitic Stainless Steel as Alternative for Hot Stamping Steel with High Product of Strength and Ductility	Lijun Wang , Chunming Liu. Northeastern Univ.	
15:30	Refreshment Break		
15:50	Solutions for Hydrogen-Induced Delayed Fracture in Hot Stamping	Hongzhou Lu , Shiqi Zhang, Bian Jian, Hardy Mohrbacher and Aimin Guo. CITIC Metal.China	Yilin Wang Phd.
16:10	Hot formed Steel and Its Properties Test	Yanbo Li, Weita Huo, Shiwang Xia . Linyun Industrial Corp.	
16:30	Effects of Austenitizing Temperature on Microstructure and Properties of Hot-Formed Steel	Helong Cai , P. Du, H. L.Yi, Di Wu. Northeastern Univ.China.	
16:50	Hand-held Blue Light 3D measurement technology and its application in hot stamping	Guomin Zhan ,Zhongwei Li,Xingjian Liu , Kai Zhong, HUST,China	
17:10	Application of Magnetic Barkhausen Noise Test System in Hot Stamping	Xiaoyu Luo, Yu Zhang, Yilin Wang , Y.S.Zhang. HUST,China	
17:30	Hot stamping technology applied on vehicles on EuroCarBody	Jia Zhou , Mingtu Ma. CAERI,China	
17:50	End of day 1		

Conference Room C: Simulation, processes and equipments (Max. 100 persons)			
13:30	Investigation of Mechanical Property and Spring back Behavior with Hot Stamping RCP Process	Bin He , Liang Ying, Yang Yu, Xi Zhao , Ping Hu, Dalian University of Technology, China	Bernard Rolfe Phd.
13:50	Localized austenitizing of the blank to make tailored properties by induction heating	Peixing Liu , Hongliang Yi, Ya Xu, Yilin Wang , Yisheng Zhang HUST,China	
14:10	Influences of Austenitization Parameters on Properties of Martensitic Stainless Steel in Hot Stamping	Kai Wang , Zhibin Wang, Peixing Liu, Yisheng Zhang , HUST,China	
14:30	Blank shape sensitivity on temperature distribution of hot stamping boron steel through conduction heating	Weikang Liang , Liang Wang, Yong Liu, Yilin Wang, Yisheng Zhang, HUST,China	
14:50	Using Optimized Material Parameters for Advanced Steel Metal Roll Forming Processes and Its Industrial Application	Albert Sedlmaier , Thomas Dietl Data M , Germany	
15:10	The parametric design of cooling system of hot stamping die	Xiangdong Xian , Yilin Wang HUST,China.	
15:30	Refreshment Break		
15:50	Research on the Ultra High Strength Steel Thermoforming Protective Atmosphere Heating Furnace	Zhanjun Wang , J.Q Hou, W.L. Zhang, Bo Hu, X.L.Wu , C.C.Wang, BRIMET,China	Weili Xu Phd.
16:10	Microstructure Evolution Behavior of 22MnB5 Pickling Plate During Double Cold Reduction and Rapid Heating Process	ShenJie Yao , L. Sun, H.H. Zhu, G.D. Wang, Harbin Institute of Technology in Weihai,China	
16:30	Spring-back Control in Automotive Door Inner Panel Stamping	Peng ZHANG , Cheng-yong WANG, Zhi-bing LU , Si-yan Wang , HeFei University of Technology,China	
16:50	Investigation on properties and microstructure in hot stamping operation of rear axle beams	Mei Zhang , Xiaochun Jin, Yongshen Xue, Qingnan Ma , Lin L, Shanghai Univ.,China	
17:10	Effects of Initial Material Conditions on the High Temperature Surface Oxidation of Press-hardening Steels	Biao Deng, Hongliang Yi . Northeastern Univ., China	
17:30	Investigation of hot stamping process of 22MnB5 based on metallo-thermo-mechanical theory	Yonggang Liu, Yun Zhang, Junwan Li, Hongbin Wang, Wu Zhang, Hairong Gu , Jiachun Jin . Maanshan Iron & Steel Corp. Ltd.,China	
17:50	End of day 1		

Friday, August 22, 2014			
*Speaker, Chairman of Session, may be part of the change			
Time	Title	Speaker	Chairman
Conference Room A (Max. 250 persons)			
8:30	Hot deformation of Al - 4.5 mass % Mg alloy sheet	Pizhi Zhao , T.Sakai, Toshiya Anami. Suzhou Institute for Nonferrous Metal Research,China	Hardy Phd.
8:50	Implementation of wear models for stamping tools under press hardening conditions based on laboratory tests	Liang Deng , Sergej Mozgovoy, Jens Hardell, Braham Prakash, Mats Oldenburg. Lulea University of Technology, Sweden	
9:10	Experimental Platform and Finite Element Analysis on Hot Stamping Processes	Tzu-Hao Hung, Heng-Kuang Tsai, Fuh-Kuo Chen and Ping-Kun Lee. Taiwan Univ., Taiwan	
9:30	New Process of Hot Stamping in Combination with Q-P-T Treatment for Higher Strength-Ductility Auto-Parts	Guangying Li , Mingtu Ma, Xiping Mao, Changxu Zhao. CISRI, China	
9:50	Refreshment Break		
10:10	Simulation of Thermal Distortion in Hot Press Forming with Dissimilar Material TWB	Hyun Ho Bok , Jong Won Choi, Myoung-Gyu Lee, Frédéric Barlat and Dong Jin Kim. POSCO Research Institute, Korea	Fuh-Kuo Chen Prof.
10:30	Optimized Design and Numerical Simulation of B-pillar Reinforcement Panel by Hot Stamping Steel	Bing Yang , Ding Zhang, Zunhui Chang, Rui Ge, Z.J. Wang, Y.S Zhang. Dongfeng Motor Technology Center, China	

10:50	The effect of heating process on strength and the original austenite grain size of hot forming parts	Hu Kuanhui , Liu Xiangdong, Feng Guanwen, Han Rongdong Research and Development Center of WISCO, China	
11:10	Ultra-High Strength Steel Hot Stamping Technology and Devices	Zhongde Shan , Qintai Yan, Chao Jiang, Wenjuan Wen, China Academy of Machinery Science and Technology	
11:30	Research on Elements Distribution in Hot Dip Aluminum Silicon Coating of Hot Stamping Steel	Ziliu Xiong , Hongqiang Liu, Xuehui Wang, Yi Cui, Jie Xue, Jianying Li Hebei Iron and Steel Technology Research Institute, China	
11:50	Thermal and Mechanical Characteristics of a HSLA steel as Joint Partner for Hot Stamping Tailor Welded Boron Steel	Bing-tao TANG , Qiao-ling WANG, Wei ZHENG and Zheng-jun YUAN Shandong Jianzhu Univ.,China	
12:10	Lunch		
13:30	Conference Room B :Materials, testing and Application (Max. 100 persons)		
13:30	Non-uniform Contact and Friction Sensitivity on Formability of Boron Steel in Hot Stamping Process	Yong Liu , Zhongxiang Gui, Zhigao Huang, Yilin Wang, Yisheng Zhang HUST,China.	Guangying Li Phd.
13:50	Analysis of the design and mechanical performance about hot stamping power fitting products	Zhou Minglin, Liang Wang , Wang Zijian , Yilin Wang , Zhang Yisheng. HUST,China	
14:10	Local Design and Near Net Shape Optimization of Typical Ultra-high Strength Steel B-pillar in Hot Stamping	Ya Xu , Chao Wang, Yilin Wang, Yisheng Zhang. HUST, China	
14:30	Valuation method for effects of hot stamping parameters on tailored properties	Zijian Wang , Ya Xu, Minglin Zhou, Yilin Wang , Yisheng Zhang.HUST,China	
14:50	The development and application research of Light weight heat treated C-grade bullet proof steel	Mingtuo Ma, Gang Chen , Yuhao Ma, Zhigang Li, Yi Feng. CAERI,China	
15:10	Research on resistance spot welding property of hot-stamping quenched steel sheets	Junping Zhang , Yi Feng, L.F. Song, Guangyao Wang, Q.S. Jin. CAERI,China	
15:30	Refreshment Break		
15:40	Visited CAERI's laboratory of Safety, NVH, EMC		
17:50	End of day 2		
13:30	Conference Room C: Simulation, processes and equipments (Max. 100 persons)		
13:30	The application of toggle mechanical press in hot forming of high strength steel	FAN Suo , Mo Jianhua , Wang Zongqiang . HUST,China.	Zhongde Shan Phd.
13:50	Study on three dimensional direct coupling simulation of induction heating for hot stamping	Yong Li , Xiong Liang, Z.D. Wang, J.D. Li , Tianliang Fu. Northeastern Univ., China	
14:10	The austenite decomposition kinetics based on CCT curves and its application in 22MnB5 steel	Xiangjun Chen , Namin Xiao, D.Z. Li, G.Y. Li , G.Y. Sun. Hunan Univ.,China	
14:30	Development of hot stamping front pillar Reinforcement	Bo Liu , Peng Liu, Zhentao Zhu Chongqing Changan Auto R&D Center, China	
14:50	The formability and hot stamping of magnesium alloy sheets	Guangsheng Huang , Lifei Wang, Fusheng Pan,Mingtuo Ma. Chongqing Univ.,China	
15:10	Innovation of Hot-Forming Technique for Cost-Efficient Lightweight Solution	Xinlei Miao . ThyssenKrupp Automotive	
15:30	Refreshment Break		
15:40	Visited CAERI's laboratory of Safety, NVH, EMC		
17:50	End of day 2		

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Reserve list of speakers

No.	Title	Speaker
1.	The Process Optimization to Prevent the Local Wrinkles of Hot Stamping Parts and the Design of Tools	Shaoli Sun , Xiaochun Yao, Yilin Wang and Yisheng Zhang. HUST, China
2.	Numerical Analysis on Penetration Resistance of Heat Treated Lightweight C-grade Bulletproof Steel Plates	Mingtu Ma, Jingwen Zhang , Junping Zhang. CAERI, China.
3.	A study on the relationship between hardness and magnetic properties of ultra-high strength steel	Yu Zhang , Zijian Wang, Yilin Wang, Zhijian Zhang and Yisheng Zhang. HUST, China
4.	Study of the Front Bumper Process on the Basis of Hot Forming	Xiaona Wang , Fei Xiong, Jianwei Jin. Geely Automobile Research Institute, China
5.	The comparative study on dynamic flow behaviors of bullet-proof steel using various constitutive models	Zhao Yan , Ma Mingtu, Jin Qingsheng. CAERI, China
6.	High-strength Steel Door-beam Design and Digital Simulation	Zhongde Shan, Qintai Yan , Chao Jiang, WenJuan Rong. China Academy of Machinery Science and Technology
7.	Research on hot stamp fold forming and fold structure strengthening of ultra high strength steel part	SHAN Zhong-de , ZHANG Mi-lan, Jiang Chao, China Academy of Machinery Science and Technology
8.	Hot Stamping High Strength Steel Spot Welding Technology and Quality Evaluation of Welding Joint	Hao Su-feng, Chen Shu-jun, Jiang Chao, Zhang Mi-lan . China Academy of Machinery Science and Technology
9.	A force model for UHSS hot-formed automobile parts	Cai Wanhua, Shan Zhongde, Ye Yongsheng , Zhuang Bailiang. China Academy of Machinery Science and Technology
10.	Microstructure and mechanical properties of 22MnB5 hot stamping part	Peng Zhang , Gang Wang, Chuncheng Pan, Xiaoqi Ren. Harbin Institute of Technology in Weihai, China
11.	Microstructure and mechanical properties of 22MnB5 Steel with different heat treatment	Hongwei Liu , H.Y. Zhao, J.B. Yu. Harbin Institute of Technology in Weihai, China
12.	Research on Resistance Spot Welding Process of Hot-Stamped Steel BTR165	You-zhen Fang , Chery Automobile Research Institute, China
13.	Hot Stamping Simulation with PAM-STAMP of the B-pillar of a well-known SUV	Jieli Ma, VAMA CTO
14.	Prediction of Microstructure and Mechanical Properties in Hot Stamping	Chao Wang , Bin Zhu, Yilin Wang and Yisheng Zhang. HUST, China
15.	Effect of Pre-heating Temperature on Microstructure and Properties of 22MnB5 Steel Hot Stamping	Yusheng Liu , Ping Li, Tianzong Gongzi. Hefei Industrial Univ., China
16.	Microstructure and mechanical properties of 0.15C-1.5Mn-0.3Si steel treated by quenching and partitioning process	Cainian Jing , Jichao Fan, Xiaomei Ni and Yisheng Zhang. Shandong Jianzhu Univ., China

Hot Stamping Technology & Equipment Seminar

Thursday, August 21, 2014			
Time	Title	Speaker	Chairman
13:30	Conference Room D (Max. 100 persons)		
13:30	Hot Stamping Materials Leading to Safer and Lighter Car Development	Mr. Cobbaut Jurgen VAMA CTO	Mingtuo Ma Phd.
14:00	Press hardening installations components and trends	A.Ormaetxea Fagor Arrasate, Hotteknik Div.	
14:30	Furnace Technologies in Hot Stamping Concepts and Experience from Production	Thomas Fuchs and Fritz Josef Ebner	
15:00	Schuler Hot forming Press Line Concept	Bei Bei, Schuler Trading (Shanghai) Co., Ltd.	
15:30	Refreshment Break		
15:50	Furnaces for Press hardening and Technological Improvements for Heat Treatment at Press hardening.	Mr. Harlad Lehmann Sales Director / SCWARTZ GMBH	
16:20	Localization on Technology and Equipment of Hot-Stamping Product Line of UHSS	Dr. Jianxu Yang, Shandong Dawang Jintai Group Co., Ltd.	
16:50	Laser Applications in hot formed parts of Automotive industry	Wangpai. TRUMPF (China) Co., Ltd.	
17:20	New development for the press hardening line and dies solution	Jianqi Wang, APT	
17:50	End of day		