

Committee

Chairman:

Zhou Yu	[China]	President of Chinese Heat Treatment Society, Harbin Institute of Technology, Academician of CAE
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International Committee:

Allan Matthews	[UK]	University of Sheffield
G. E. Totten	[USA]	University of Portland
Xu Zuyao	[China]	Shanghai Jiao Tong University, Academician of CAS
Xu Binshi	[China]	Institute of Surface Engineering, Academician of CAE
Chen Yunbo	[China]	China Academy of Machinery Science & Technology, Academician of CAE
Pan Jiansheng	[China]	Shanghai Jiao Tong University, Academician of CAE
Zhao Zhenye	[China]	Honorary President of Chinese Heat Treatment Society, Academician of CAE
Fan Dongli	[China]	Honorary President of Chinese Heat Treatment Society
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Xu Kewei	[China]	Xi'an University, EC member of IFHTSE
Patrick Jacquot	[France]	Bodycote, President of IFHTSE (2016-17)
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Stefan Hock	[Italy]	Secretary-general of IFHTSE
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Simon Blantern	[UK]	Bodycote, EC member of IFHTSE
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Dong Hanshan	Du Zhenmin	Hideo Kanamori	Ju Dongying	Jin Nengyun	Liu Ping
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Wen Jiuba	Yao Jianhua	Yang Yanqing	Zhang Jin	Zhu Sheng	Tan Jun
Lv Dongxian	Wang Shuqin	Li Qiao			

Organizing Committee:

Xu Yueming	Li Ruguan	Chen Chunwuai	Zhang Guanjun	Zhu Wenming	Feng Shangshen
Chen Yunxiang	Zhang Weimin	Dong Xiaohong	Ren Ruiming	Zeng Aiqun	Zheng Yanjun
Shao Zhoujun	Sun Yifan	Wu Yucheng	Ling Guoping	Gao Yukui	Xia Yuan
Toru Fukuda	Kim Jae-Young				

General information

Notice

For a number of events, the organisers will provide tickets (social events, tours) upon registering. Please present the relevant ticket upon request. **If you are not able to present such ticket, you may be refused access to this function.**

Registration / Information Desk

November 11- 12 : 08:00-20:00-----Lobby, Yuanzheng Qizhen Hotel

All delegates will receive their name badge, meeting documents and all relevant conference information upon arrive at the Yuanzheng Qizhen Hotel.

Banquet

November 12 : 18:30-19:30

The banquet will take place at the Zijingang Dining Hall in campus, this is an informal evening open to all delegates at no extra cost. **Ticket is required.**

Opening Ceremony

November 12: 08:30-08:45

Qizhen hall(the 3rd floor),Yuanzheng Qizhen Hotel

Conference meals

Lunch: 12:00-13:30 (Buffet, November 11-13)

Supper: 18:00-19:00 (Buffet, November 11-13)

All the conference meals will take place at the Zijingang Dining Hall in campus. This is included in the registration fee and open to all delegates.**Ticket is required.**

Exhibition Opening Hours

November 12-13: 08:00-20:00

3rdand 4th floors of the Yuanzheng Qizhen Hotel

Speaker Presentations

Presenters must check in their presentation to the technician on site before they are due to speak. Presentations can be check in during tea/coffee/lunch breaks or prior to the morning session.

Please be at the front of the stage 10 minutes before the start of your session begins.

Poster information

All poster papers will be displayed in the specific poster areas located on the 3rd and 4th floors of the Conference Center. Presenters posters can be put up from 14:00 on November 11 and must be taken down by 18:00 on November 13.

Program at a Glance

11 November, Friday	
08:00~20:00	Registration (Lobby, Yuanzheng Qizhen Hotel)
16:30~18:00	IFHTSE Executive Meeting (Shuhe hall, Yuanzheng Qizhen)
18:00~19:00	Buffet
12 November, Saturday	
08:00~20:00	Registration (Lobby, Yuanzheng Qizhen)
08:30~12:00	Opening Ceremony&Plenary Session (Qizhen Hall, Yuanzheng Qizhen)
12:00~13:30	Buffet
13:30~17:30	Plenary Session (Qizhen Hall, Yuanzheng Qizhen)
18:30~19:30	Banquet
13 November, Sunday	
08:30~12:00	Parallel Technical Sessions (Heat treating ,Surface Engineering)
12:00~13:30	Buffet
13:30~18:00	Parallel Technical Sessions (Heat treating ,Surface Engineering)
18:00~19:00	Buffet

November 12, 2016

Opening Session/Photo shoot /Plenary Session		
Time	Chair: Prof.Yucheng, Wu,Prof.Jianfeng Gu	Location: Qizhen Hall(3 rd floor)
08:30-08:45	Welcome and brief statements from President of CHTS,Prof Yu Zhou and Secretary General of IFHTSE Mr. Stefan Hock	
08:45-09:25	Innovation as a key factor in further development of advanced laser surface processing and manufacturing	Dr. Scott MacKenzie
09:25-10:05	Update of quenching and quenchant technology	Prof.Volodymyr S. Kovalenko
10:05-10:25 Tea / poster /exhibition		
10:25-11:05	Recent development of the surface nanocrystallization for enhancing the diffusion properties	Prof.Jian Lu
11:05-11:45	Modeling of material behavior and cooling process in heat treatment simulation	Dr.Kazuo Okamura
Lunch: 12:00-13:30, at the Zijingang Dining Hall in campus		
Plenary Session		
Time	Chair: Prof.Ju Dongying, Prof .Ouyang Jiahu	Location: Qizhen Hall(3 rd floor)
13:30-14:10	Solid phase transformation and microstructure controlling in additive manufacturing of high performance large metal component	Prof. Huaming Wang
14:10-14:50	Thermochemical surface engineering: a playground for science and innovation	Prof.Marcel A.J. Somers Dr. Thomas Christiansen
14:50-15:30	Into the “black hole” of heat treating	Dr.George Totten
15:30-15:50 Tea / poster /exhibition		
15:50-16:30	Progress review on the numerical simulation of materials heat treatment processes	Prof.Jianfeng Gu
16:30-17:10	Overview of Automotive Tribology and Future Development Trends – Effects of Surface Engineering and Material on Advanced Powertrain Technologies	Dr. Simon C. Tung
Banquet: 18:30-19:30,at the Zijingang Dining Hall in campus		

November 13, 2016

Location: Shunshui Hall (4th Floor)

Session: Phase Transformation, Microstructure and Properties

Time	Chair: Prof. Yucheng Wu, Prof. Genshu Zhou, Prof. Dian Tang, Prof. Baifeng Luan	Location: Shunshui Hall
08:30-09:00★	Understanding of Crystallographic Morphology in Transformation Microstructures	Wenzheng Zhang
09:00-09:15	Thermally activated formation of martensite in Fe-C alloys and Fe-17%Cr-C stainless steels during heating from boiling nitrogen temperature	Matteo Villa, Mikkel F. Hansen, Marcel A.J. Somers
09:15-09:30	Research on austenite grain growth behavior of medium carbon Cr-Ni-Mo alloyed steel during heating processes	Yingnan Xia, Liwen Zhang, Chi Zhang, Wenfei Shen
09:30-09:45	The effect of ion nitriding residual stress on fatigue properties	Jinsheng Lu, Xiuyu Chen, Heng Zhang
09:45-10:00	Wear behavior of air-cooling bainitic wear-resistant steel for cone crusher liner	Zhongzheng Pei, Renbo Song, Shuai Liu, Shiguang Peng
10:00-10:15	Effect of ultrasonic external field on the formation of graphite during solid-state graphitization of spherical graphite (SG) cast iron	Junwen Li
10:15-10:30 Tea / poster / exhibition		
10:30-11:00★	Case hardening steels: As good as it gets?	Stefan Hock
11:00-11:15	Influence of Nb content on the microstructure and deuterium retention of W-Nb alloys	JingBo Chen, LaiM Luo, JinShan Lina, Xiang Zan, XiaoYong Zhu, GuangNan Luo, YuCheng Wu
11:15-11:30	Microstructure and properties of W-30Cu-0.5Ag/TiC composites prepared by electroless plating and powder metallurgy	MeiLing Zhao, LiMei Huang, LaiMa Luo, XiaoYong Zhu, JiGui Cheng, YuCheng Wu
11:30-11:45	Microstructural characterization on interface of CeB ₆ /Al in melt-spun Al-Ce-B alloy for refining of aluminum alloys	Shuiqing Liu, Chunxiang Cui, Xin Wang, Hengli Chen, Nuo Li, Jinhua Ding
11:45-12:00	Al ₂ O ₃ nanoparticles induced corrosional behaviors on copper	Yabo Fu, Zhijun Wang, Shufeng Li, Ping Zhang

Lunch: 12:00-13:30, at the Zijingang Dining Hall in campus

Session: Heat Treatment Technologies and Equipment

Time	Chair: Prof. Xinmin Luo, Prof. Fei Xie, Prof. Guoxing Pang, Prof. Yilong Liang	Location: Shunshui Hall
13:30-14:00★	Plasma nitriding and nitrocarburizing challenges and possibilities	<i>Dr. Zoltan Kolozsvary</i>
14:00-14:15	Effect of strain rates on tensile behavior of directionally solidified superalloy DZ125	<i>Liang Taosha, Wang Lei, Liu Yang, Song Xiu</i>
14:15-14:30	Annealing behavior of commercially purity titanium sheet deformed by cold rolling	<i>Na Liu</i>
14:30-14:45	Effect of aging time on the microstructure and mechanical properties of as-cast austenitic high-Mn low-density steel	<i>Zhidong Tan, Renbo Song, Shuai Liu, Shiguang Peng, Yifan Feng, Changhong Cai</i>
14:45-15:00	Effect of annealing temperature and annealing time on microstructure and mechanical property of 410 stainless steel wire	<i>Naipeng Zhou, Renbo Song, Shuai Liu, Lei Chen</i>
15:00-15:15	Effect of annealing temperature on microstructure and magnetic properties of submicron hollow Fe-N powder	<i>Guodong Cui, Yang Hu, Chengsong Zhang, Junying Chen, Runjian Jiang, Ai Li</i>
15:15-15:30	The effects of aged time on microstructure and properties of Mg-Zn-Zr-Ce biomedical magnesium alloy	<i>Shaofan Lei, Jiuba Wen, Ya Liu, Junguang He</i>
15:30-15:45	Advanced heat treatment process of offshore mooring long chains used for deep sea float	<i>Jiang Yin, Xuejun Bao</i>

15:45-16:00 Tea / poster / exhibition

16:00-16:15★	Alternating current field enhanced duplex treatment of pack aluminizing and nitriding on 45 steel	<i>Fei Xie, Ge Zhang, Jianwei Pan</i>
16:15-16:30	Novel Pack Cementations: Alternating Current Field Enhanced Pack Cementations	<i>Fei Xie, Shaoqiang Xu, Jianwei Pan</i>
16:30-16:45	Wear and Corrosion Resistances of Expanded-Austenite Layer formed on Austenitic Stainless Steels by combining Active Screen and DC Plasma Carburizing Processes	<i>Nobuhiko Satomi, Nobuyuki Kanayama, Youichi Watanabe, Osamu Takai</i>
16:45-17:00	Effect of nitrated-layer microstructure control on wear behavior of AISI H13 hot work die steel	<i>Xingfeng Zhao, Bo Wang, Wenzheng Li, Ming Qin, Jianfeng Gu</i>
17:00-17:15	Effect of abrasive waterjet peening on the surface properties of carburizing Si-Mn-Mo Bainite Steel and Thermal Stability of Residual Stress	<i>Xiong Zou, Yilong Liang, Zeli Wu, Ming Yang, Junjie Hu</i>
17:15-17:30	Effect of an external ultrasonic field (EUF) applied during the brine-quenching on tensile strength of carbon steel	<i>Junwen Li</i>
17:30-17:45	Effect of Cold Expansion on High-temperature Fatigue Property of the Superalloy with Hole Structure	<i>Xin Wang, Xing Chen, Ren-gao Hu, Bo Hu, Yuan-xing Gu, Zhi-hui Tang</i>
17:45-18:00	The important role of omega-Fe phase in carbon steels on heat treatment	<i>D. H. Ping, T. W. Liu, M. Ohnuma, T. Ohmura</i>

Supper: 18:00-19:00, at the Zijingang Dining Hall in campus

November 13, 2016

Location: Yangming Hall (4th Floor)

Session: Surface Modification and Coatings		
Time	Chair: Prof. Yuan Xia, Prof. Wenbin Xue, Prof. Yukui Gao, Prof. Yangming Wang	Location: Yangming Hall
08:30-09:00★	High emissivity ceramic coatings incorporated with different SiC contents on Ti ₂ AlNb alloy by microarc oxidation	<i>Jia-Hu Ouyang, Yuan-Hong Wang, Zhan-Guo Liu, Ya-Ming Wang, Yu-Jin Wang</i>
09:00-09:15	Effect of electrolyte composition on corrosion and wear resistance properties of microarc oxidation coated Zircaloy-4 for nuclear application	<i>W. Feng, Y.M. Wang, Y.R. Xing, L.X. Guo, J.H. Ouyang, D.C. Jia, Y. Zhou</i>
09:15-09:30	Optical emission spectroscopy of plasma electrolytic oxidation process on 7075 aluminum alloy	<i>Xuan Yang, Yao Qu, Lin Chen, Run Liu, Wenbin Xue</i>
09:30-09:45	Aluminide coating on nickel-base superalloy by spark plasma sintering technique	<i>Akio Nishimoto, Kan Nakazawa</i>
09:45-10:00	Electrodeposition of crystalline silicon on electroetched Ag from SiCl ₄ -[BMP]Tf ₂ N ionic liquid at room temperature	<i>Zhehang Pan, Jiani Huang, Guoping Ling</i>
10:00-10:15	Photocatalytic Properties of WO ₃ /TiO ₂ composite films on titanium by microarc oxidation and first-principle calculations	<i>Lin Chen, Yao Qu, Xuan Yang, Bin Liao, Wenbin Xue</i>
10:15-10:30 Tea / poster / exhibition		
10:30-11:00★	Microstructure in the ultrafine-grained surface layer of an Al-Zn-Mg-Cu alloy processed by sliding friction treatment	<i>Yanqing Yang, Yanxia Chen, Guangming Zhao, Bin Huang, Xian Luo</i>
11:00-11:15	A study of electron beam boronizing and boroaluminizing of carbon steels	<i>Mishigdorzhzyn Undrakh., Sizov Igor, Polyansky Ivan</i>
11:15-11:30	Enhanced surface layer of GH4169 superalloy by shot peening and laser shock peening towards improved fatigue performance	<i>Yukui Gao</i>
11:30-11:45	Properties of the passive film formed on Alloy 625 in 0.5M hydrochloric acid solutions	<i>Y. Ren, G.S. Zhou, D.G. Li</i>
11:45-12:00	Study on the preparation and the properties of the CeO ₂ /epoxy resin coating on NdFeB magnets	<i>Pengjie Zhang</i>
12:00-12:15	Preparation and performances of Cu-Co spinel coating for SOFC interconnect application	<i>Xue Zhang, Chaoliu Zeng</i>
Lunch: 12:00-13:30, at the Zijingang Dining Hall in campus		

Session: Quenching and Control of Distortion, Modeling and Simulation

Time	Prof.Jianfeng Gu, Dr.Youichi Watanabe,Prof. Wei Shi, Prof. Felde Imre	Location: Yangming Hall
13:30-14:00★	Countermeasures for various defective phenomenon in the heat treatment process	<i>Rikki Homma, Katsumi Ichitani</i>
14:00-14:15	Comparative measurement and evaluation of the quenching intensity of palm oil and canola oil based on temperature gradients	<i>Bozidar Liscic, Bozidar Matijevic, George E. Totten, Lauralice de C.F. Canale</i>
14:15-14:30	Modeling and simulation of heat treatment processes of large backup roll	<i>Wei Shi, Jia-Yu Jin, Imre Felde, Huan-Yu Di, Xi-Chun Zhao</i>
14:30-14:45	Optimization of the Quenching Process Using Numerical Simulation Techniques	<i>David Greif, Rok Kopun, Dongsheng Zhang</i>
14:45-15:00	Continuous casting processes and cooling rate evaluation for metallic glasses	<i>Zhipu Pei, Dongying Ju</i>
15:00-15:15	The Role of Retained Austenite in the Quenching and Partitioning Steels	<i>Zhenghong Guo, Jianfeng Gu</i>
15:15-15:30	Effect of Quenching Rate on Mechanical Properties and Exfoliation Corrosion Resistance of 7081 Aluminum Alloy	<i>Wenxiang Shu, Jingying Bai, Qingxin Cui, Chunjian Wang, Qiangmiao Wen, Longgang Hou</i>
15:30-15:45	The technology of "die steel pre-hardened online by quick variable frequency and variable amplitude pulse intelligent controlled gas-water cooling "	<i>Mouwei Li, Chaona Ton, Guoyong Liu, shaojun Zhang, Jianguyun Li, Xinxiao Bian, Dongmei Zhu, Chen Xuebo, Lihou Liang, Zhengjun Che, Lijuan Cai, Xuefei Lv, Shichuang Gong, Zhengan An</i>
15:45-16:00 Tea / poster / exhibition		
16:00-16:30★	Investigation of parallelized PSO algorithm applied to estimate complex HTC	<i>Imre Felde, Sándor Szénási, Zoltán Fried, Wei Shi</i>
16:30-16:45	Numerical simulation of on-Line water cooling process of non-quenched and tempered large-sized steel bar	<i>Wen-fei Shen, Li-wen Zhang, Chi Zhang, Yi-feng Xu, Li-fang Bie</i>
16:45-17:00	Inverse analysis method of heat transfer coefficients on the surface of a new disk probe	<i>Hideo Kanamori, D.Y.Ju, Takuya Koizumi, Katsumi Ichitani</i>
17:00-17:15	The adaption of heat treatment simulation for the actual mass production process	<i>Tsuyoshi Sugimoto</i>
17:15-17:30	An exponential model to determine inner/outer active surfaces for electrodes prepared by thermal decomposition	<i>Xin Wang</i>
17:30-17:45	Experimental study on the thermal physical parameters of 300M steel	<i>Zhi Shen</i>

Supper: 18:00-19:00, at the Zijingang Dining Hall in campus

Poster

Position	Poster list	Authors name
poster 1	Study on transformation plasticity behavior of steel materials	<i>Shan Miao, Yong Chen, Yiqi Liu, Dongying Ju</i>
poster 2	Cementite Decomposition in QT500-7 Spherical Graphite Cast Iron by Ultrasonic Treating	<i>Junwen Li</i>
poster 3	Combined effects of cerium and solidification rate on microstructure and mechanical properties of AZ91 magnesium alloy	<i>Huisheng Cai, Feng Guo, Juan Su, Fa Wang</i>
poster 4	Effect of ultrasonic and mechanical agitation fields on microstructure and tensile strength of carbon steel during the oil-quenching	<i>Junwen Li</i>
poster 5	Tempering process control of P92 steel	<i>Qiang Zhao, Wei An, Hui Sheng, Xiankuan Peng, Guangxin Xu</i>
poster 6	Effect of feposited layer and distance between screen and sample during active screen plasma nitriding	<i>Takahiro Fukube, Toshiya Tanaka, Akio Nishimoto</i>
poster 7	Study on dual-fine grain heat treatment process of Cr12MoV steel	<i>Jun Lu, Qi Wang, Jing Wang, Yuwei Shen, Weichao Sun</i>
poster 8	Simulation on the carburizing-quenching process of 17 CrNiMo6 gear	<i>Xing Zhang, Jianfeng Gu, Wenzheng Li</i>
poster 9	Evaluation of the oil cooling ability using a variable angle SUS303 sample	<i>Takuya Koizumi, Hideo Kanamori, Dongying Ju, Katsumi Ichitani</i>
poster 10	Modeling and simulation of nitriding process in SCM420 helical gear	<i>Xiaohu Deng, Dong-ying Ju</i>
poster 11	Carburizing of Titanium Using Graphite Powder by Spark Plasma Sintering Technique	<i>Chihiro Nishi</i>
poster 12	Numerical simulation study of vacuum carburizing process	<i>HaoJie Wang, ZhaoDong Wang, Jing Liu, YuJia Liu, Yong Li, JiaDong Li, Yong Tian</i>
poster 13	Corrosion behaviors of high strengthen steel in simulated deep sea environment of high hydrostatic pressure and low dissolved oxygen	<i>Wenli Han, Hui Tong, Shicheng Wei, Binshi Xu, Yanjun Zhang, Zhu Lin</i>
poster 14	First-principles study of electronic structure and optical properties about Se, Te substitutional doping in monolayer MoS2	<i>Yue Teng, Yu-dong Fu</i>
poster 15	The plasma electrolytic oxidation micro-discharge channel model and its microstructure characteristic based on Ti tracer	<i>Fangyuan Gao, Li Hao, Guang Li, Yuan Xia</i>
poster 16	Research on micro-arc oxidation process parameter effect on wear-resistance of 2A12 aluminum alloy	<i>Guoxing Pang, Zhonglei Li, Zhiyong Chen, Yidong Yang</i>
poster 17	Evaluation of the wear resistance and corrosion resistance of laser cladding coating	<i>Huabo He, Mengmeng Yang, Jiaoyan Dai, Jinfu Xu</i>

poster 20	Study on the deposition rate of electroless Ni-P/Nano SiC plating under the influence of electromagnetic fields	<i>Hengzhi Zhou, Wen-hao Wang, Yu-qiang Gu, Yun-qiang Bai, Ya-jun Xue</i>
poster 21	Effect of hydrostatic pressure on the corrosion behaviors of high velocity arc sprayed Al coating	<i>Hui Tong, Wenli Han, Shicheng Wei, Binshi Xu, Yanjun Zhang, Zhu Lin</i>
poster 22	Erosion wear behavior of WC-12Co coatings prepared by APS	<i>Cunguang Liang, Xinmei Li, Pengfei Zhang</i>
poster 23	Investigation on bonding mechanism of WC/Stellite-6 composite coating produced by supersonic laser deposition	<i>Bo Li, Jianhua Yao, Qunli Zhang, Zhihong Li</i>
poster 24	Research on Pt-Fe thin film prepared by magnetron sputtering	<i>Masayuki Shimada, Susumu Satou, Dongying Ju</i>
poster 25	Corrosion and wear resistance of Al -AlB ₁₂ -Al ₂ O ₃ coating on AZ31B magnesium alloy Surface	<i>Dan Wang, Wei Long, Xiao-ping Zhou</i>
poster 26	Optical enhancement of chemical vapor deposited diamond film and transformation of nitrogen related centers	<i>Sheng Liu, Cheng-ming Li, Jin-long Liu, Liang-xian Chen, Jun-jun Wei, Li-fu Hei, Fan-xiu Lu</i>
poster 27	Corrosion resistance of Al-Mg ₂ Si composite coating on the AZ31B magnesium alloy by the flame spraying	<i>Chun Fan, Wei Long, Xiao-ping Zhou</i>
poster 28	Study of properties and preparation of WC-Co coating on TC4 titanium alloy	<i>Nan Zhang, Jianwen Hu, Yanhui Li, Weiying Jia, Xiu Sun</i>
poster 29	Low temperature plasma hardening of austenitic stainless steel tubes used in nuclear power	<i>Li-ping Zhen, Jun-ping Wu, xue-feng Song, Cheng Zhao</i>
poster 30	The effect of sand blasting pretreatment on plasma nitriding	<i>Bin Miao, Lu Song, Kunxia Wei, Jing Hu</i>
poster 31	Fabrication and characterization of electroless Ni-P-SiC nano-composite coatings	<i>Hong Wang, Yubao Cao, Junsheng Jiang, Dawei Cui</i>
poster 32	Microarc oxidation treatment on Zr-Nb-Sn alloy in silicate solution and its' properties characterization	<i>Yao Qu, Lin Chen, Xuan Yang, Yanwei Zhang, Rongshan Wang, Wenbin Xue</i>
poster 33	Effects of teflon coating on the corrosion resistance of sintered NdFeB permanent magnet	<i>Pengjie Zhang, Yujie Cao, Jiaqin Liu, Guangqing Xu, Xiaofei Yi, Jingwu Chen, Yucheng Wu</i>
poster 34	Effect of bath temperature on morphology and composition of electroless Ni-P coating on silicon substrate in aqueous alkaline solution	<i>Wangping Wu, Jinjin Jiang, Tongxin Yuan, Peng Jiang, Zhizhi Wang, Dejun Kong, Hui Wang</i>
poster 35	Surface nanostructure and improved wear resistance of 40CrNiMo7 steel Induced by high current pulsed electron beam treatment	<i>Huihui Wang, Shengzhi Hao, Limin Zhao</i>
poster 36	R6 grade of high strength steel with 1110-1260 MPa and lower EAC for offshore mooring chains	<i>Jiang Yin</i>