Conference Program

August 19th

	The opening ceremony					
	08:00-08:15 Zhouhua JIANG, Northeastern University					
	Pl	lenary reports	(08:15-09:05; B	Sanquet Hall, 2 nd floor)		
		Cha	ir: Pro. Zhouhi	ua JIANG		
1	08:15-08:40	Stephen YUE	McGill University	Machine learning applied to the hot rolling of steel		
2	08:40-09:05	Han DONG	Shanghai University	Exploration of performance limit of iron and steel materials		
	Grour) nhoto of all a		-09:25; Hotel Parking Lot)		
	Group	photo of all a		o, i,		
	K	evnote reports	(09:25-12:20: B	Banquet Hall, 2 nd floor)		
		eg note reports	Chair: Pro. Jii			
3	9:25-9:50	Xiaoming LIU	Northeastern University	Research progress of new electromagnetic metallurgy technologies in continuous casting process		
4	9:50-10:15	Dai TANG	Georgia Institute of Technology	Nitrogen control in producing 3rd AHSS steel		
5	10:15-10:40	Jong-Jin PAK	Hanyang University	Inclusion thermodynamics for high-Mn and high-Al advanced high strength steels		
6	10:40-11:05	Hiroshi FUKAYA	Japan Steel Works	Measurement of the Al deoxidation equilibrium and its application in the operation for high cleanliness steels		
7	11:05-11:30	In-Ho JUNG	Seoul National University	Thermodynamic and viscosity database for ESR slags: Design of ESR slag chemistry		
8	11:30-11:55	Lev MEDOVAR	Paton Electric Welding Institute	About place of desulphurization at ESR		
9	11:55-12:20	Ueda SHIGERU	Tohoku University	Physical properties of slag to promote reaction and separation of slag and metal		

	13:30-15:35; Banquet Hall, 2 nd floor					
	Chair: Prof. Lev MEDOVAR					
			Plenary report			
10	13:30-13:55	Menghuai MU	University of	Advanced process simulation of		
		THE STANT THE	Leoben	solidification and remelting		
		01	Ukrainian State	Technologies of gas-oxygen refining		
11	13:55-14:20	Olexandr VELYCHKO		- multifunctional opportunities for		
		VELICIKO	University	smelting stainless steel and ferroalloys		
			 Keynote report	•		
			Hong Kong	Control of continuous and		
12	14:20-14:45	Zengbao JIAO	Polytechnic	discontinuous precipitation in		
			University	advanced high-strength steels		
				Exchange of metals between slag		
13	14:45-15:10	Deepoo KUMAR	IIT Bombay	pool and steel droplet during ESR		
		_	_	refining process		
		V Kurup Charles	University of	Influence of quench and partition		
14	15:10-15:35	SIYASIYA	Pretoria	heat treatment on the transformation		
		SHASHA	1 ICIOITA	kinetics of high aluminum steel		
		Tea	break (15:35-1	5:50)		
	Me	eting reports (1	5:50-17:30; Bar	iquet Hall, 2 nd floor)		
		Chair	r: Prof. Jong-Ji	n PAK		
			Pohang	Surface modification of high-Mn		
1.5	15:50-16:15	Jung-wook CHO	University of	steel to reduce hot crack		
13			Science and	susceptibility by formation of		
			Technology	functionally graded interlayers		
	16:15-16:40	Seshadri SEETHARAMAN	KTH Royal	Mo, Cr and V alloying in speical		
16			Institute of	steels		
			Technology			
	16:40-17:05	Lidong TENG	ABB Metallurgy	Effect of electromagnetic stirring on		
17				stainless steel smelting process in an		
				electric arc furnace		
	17:05-17:30	Chengbin SHI	University of Science and Technology Beijing	Active element variation and		
1.0				inclusion evolution during		
18				electroslag remelting of a		
				heat-resistant steel for		
				ultra-supercritical power plants		

August 20th

	Plenary reports (08:00-09:40; Banquet Hall, 2 nd floor)						
	Chair: Prof. Rong ZHU						
1	08:00-08:25	Zhouhua JIANG	Northeastern	The latest research progress of			
1	08.00-08.23	Zhouhua JiANG	University	electroslag remelting technology			
	08:25-08:50		University of	In-situ transformation technology			
2		Jing LI	Science and	of eutectic carbides in high carbon			
			Technology Beijing	martensitic stainless steel			
			Wuhan University	Study on the purification of			
3	08:50-09:15	Guangqiang LI	of Science and	electrolytic manganese metal by			
			Technology	electroslag remelting			
			Institute of metals,	Research on preparation technology			
4	09:15-09:40	Jinguo LI	Chinese Academy	of high purity homogeneous			
			of Sciences	superalloy			
	Tea break (09:40-10:00)						
	Pai	rallel reports (1	0:00-11:45; Banq	uet Hall, 2 nd floor)			
		Cha	ir: Prof. Ximin Z	Lang			
				Effect of Surface-active Element Te			
5	10.00 10.15	Lichun ZHENG	Northeastern	on the Microstructure and			
3	10:00-10:15		University	Mechanical Properties of M42 High			
				Speed Steel			
				Production practice and quality			
6	10:15-10:30	Dong HOU	Suzhou University	control of electroslag remelting and			
				vacuum arc remelting			
				Sources of calcium			
7	10:30-10:45	Meng SUN	Northeastern	oxide-containing inclusions in			
'	10.50 10.15	name serv	University	aluminum deoxidized gear steels:			
				the role of ferrosilicon			
	10:45-11:00			Effect of solidification pressure and			
8		Weichao JIAO	Northeastern	microalloying on solidification			
			University	microstructure of M42 high speed			
				steel			
	11:00-11:15	Xuehui LIU	Fushun Special	Distribution and influence of Mn			
9			Steel Co., Ltd	element in shallow layer of VAR			
steel ingots containing I				steel ingots containing Mn			
10	11:15-11:30	Shouxing YANG		Cleanliness control of pressurized			
			University	electroslag remelting high nitrogen			

				stainless steel
11	11:30-11:45	Yushuo LI	Northeastern University	Homogenization and hot deformation behavior of refractory nickel-based superalloy GH4975

	Plenary reports (13:30-15:10; Banquet Hall, 2 nd floor)					
	Chair: Prof. Yanwu DONG					
12	13:30-13:55	Yunbo ZHONG	Shanghai University	Research progress and thinking of magnetic control electroslag remelting technology		
13	13:55-14:20	Zhicheng ZHANG	Daye Special Steel Co., Ltd.	Digital and intelligent co-construction helps the high-quality development of Daye Special Steel and Special Metallurgy products		
14	14:20-14:45	Teng YU	Fushun Special Steel Co., Ltd	Types, causes and control of metallurgical defects in superalloys during vacuum arc remelting		
15	14:45-15:10	Candong ZHOU	Baowu Special Metallurgy Co., Ltd.	Research and development of special stainless steel in Baowu Special Metallurgy		
	Pai	rallel reports (1:	5:10-16:10; Banq	juet Hall, 2 nd floor)		
		Cha	ir: Dr. Chengbin	SHI		
16	15:10-15:25	Wanming LI	University of Science and Technology Liaoning	Cooling rate calibration and carbide formation mechanism in electroslag remelting process of tool and die steel		
17	15:25-15:40	Xiaobo ZHANG	Northeastern University	Molecular dynamics simulation study of Ce ₂ O ₃ on the structure of CaO-Al ₂ O ₃ slag melt		
18	15:40-15:55	Zhiwei CHEN	BAOWU Special Metallergy Aeronautical Research Science & Technology Co., Ltd.	Research on the production process of high-performance special high-silicon stainless steel		
19	15:55-16:10	Jiajun CUI	Northeastern University	Influence of electromagnetic stirring on grain structure in		

				vacuum arc remelting process		
	Tea break (16:10-16:30)					
	Pai	rallel reports (1	6:30-18:00; Banq	uet Hall, 2 nd floor)		
		Chair	: Dr. Lizhong CH	IANG		
			University of	In situ observation of solidification		
20	16:30-16:45	Cuanadi 711AO	Science and	characteristics of a nickel-based		
20	10.30-10.43	Guangdi ZHAO	Technology	deformed superalloy at different		
			Liaoning	cooling rates		
		Kean YAO		Effects of rare earth treatment on		
21	16:45-17:00		Northeastern	cleanliness, microstructure and		
21			University	properties of 1J85 soft magnetic		
				alloy		
			University of	Research on carbide formation and		
22	17:00-17:15	Wei LIANG	Science and	transformation in M35 high speed		
			Technology Beijing	steel		
	17:15-17:30	Pengchong LU	Northeastern University	New process for purifying high		
23				nitrogen stainless bearing steel by		
				"Three-step Method"		
	17:30-17:45	Hongbing QIAN	Inductotherm Industrial (Shanghai) Co. Ltd.	Analysis of the reasons for		
24				improving the shrinkage cavities of		
'				master alloy ingots by ingot die		
			(Shanghar) Co. Zia.	preheating		
2.5			Northeastern	Effect of quenching conditions on		
25	17:45-18:00	Yunchao LI	University	microstructure and properties of		
			-	spring steel		
Closing ceremony						
	Chair: Prof. Rong ZHU					