Sunday 16	Sunday 16 June - WORKSHOPS				
8:00am	Workshop Registration, Arrival T&C	Boulevard Foyer			
	Workshop 1	Workshop 2			
	Boulevard B1	Boulevard B2			
9:30am	Factsage Course	Fundamentals of Slag Chemistry			
	Presenters: Liling Jin, LiFePO4 Batteries,	Presenter: Prof. Geoff Brooks, Swinburne			
	Canada; Prof. In-Ho Jung, Seoul National	University, Australia			
	University, South Korea; Dr Denis Shishin,				
	University of Queensland, Australia; Dr				
Stephan Petersen, GTT-Technologies,					
	Germanv				
11:00am	Morning Tea	Boulevard Foyer			
	Boulevard B1	Boulevard B2			
11:30am	Workshop 1 cont'd	Workshop 2 cont'd			
1:00pm	Lunch	Boulevard Foyer			
	Boulevard B1	Boulevard B2			
1:30pm	Workshop 1 cont'd	Workshop 2 cont'd			
3:00pm	Afternoon Tea	Boulevard Foyer			
	Boulevard B1	Boulevard B2			
3:30pm	Workshop 1 cont'd	Workshop 2 cont'd			
4:30pm	Registration Opens for Conference	Boulevard Foyer			
6:00pm-	Welcome Reception	Boulevard Foyer			
8:00pm					

Monday 17	June - CONFERENCE DAY 1			
7:30am	Registration Opens, arrival T&C			Boulevard Foyer
8:30am	Welcome to Country			Boulevard Auditorium
8:40am	Welcome from Chairs	Welcome from Chairs		
	Emer. Prof. Peter Hayes FAusIMM(CP), PYROS	SEARCH, University of Queensland, Australia		
8:50am	Welcome from AusIMM			Boulevard Auditorium
	Stephen Durkin FAusIMM, CEO, Australasian I	nstitute of Mining & Metallurgy (AusIMM), Austr	ralia	
9:00am	Ministerial Welcome			Boulevard Auditorium
	Dr Mark Jacobs, Deputy Director-General, Scie	ence Division, Queensland Department of the E	Environment, Science & Innovation, Australia	
9:10am	Plenary Speaker 1: Physicochemical properti	es of steelmaking slags for the mitigation of CO	D2 emissions in steel sector	Boulevard Auditorium
	Prof. Joohyun Park, Hanyang University, South	Korea		
9:50am	Morning Tea			Boulevard Foyer
	Session 1 - Slag Fundamentals	Session 4 - T/D and Process Modeling	Session 7 - Ferrosilicon and	Session 10 - Phase Diagram Studies
			Ferrochromium	
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Prof. Geoffrey Brooks, Swinburne	Dr Stephan Petersen, GTT-Technologies,	Prof. Oleg Ostrovskii, University of New	Dr Taufiq Hidayat, Intitut Teknologi
	University of Technology, Australia	Germany	South Wales, Australia	Bangung, Indonesia
10:20am	Keynote: Slag-steel reactions in the refining	Keynote: Pyrometallurgical process	Keynote: Reducing CO2 emissions from the	Keynote: Advancement in experimental
	of advanced high-strength steel		ferro-alloy and silicon production	methodologies to produce phase equilibria
	Dr P. Chris Pistorius, Carnegie Mellon	databases	Prof. Merete Tangsted, Norwegian University	and thermodynamic data in multicomponent
	University, United States	Prof. In Ho Jung, Seoul National University,	of Science and Technology (NTNU), Norway	systems
		South Korea		Dr Maksym Shevchenko, PYROSEARCH,
				University of Queensland, Australia
10:55am	Perspectives of chemical metallurgy	Continuous method of thermodynamic	Effect of slag composition on titanium	Phase diagram study and thermodynamic
	fundamentals in slag innovation	optimization using first-derivative matrices	distribution ratio between ferrosilicon melt	modeling of the CaO-TiO2-CaF2 system
	Dr Sanghoon Lee, Yonsei University, South	for large multicomponent systems	and CaO-SiO2-Al2O3 slag at 1773K	Jiho Bang, Seoul National University, South
	Korea	Dr Evgenii Nekhoroshev, PYROSEARCH,	Minjoo Lee, Hanyang University, South Korea	Korea
		University of Queensland, Australia		

11:20am	Theoretical and experimental approaches to determine the mass transfer coefficient in the steel/slag/refractory system <i>Manuel Schickbichler, Christian Doppler</i> <i>Laboratory for Inclusion Metallurgy in</i> <i>Advanced Steelmaking, Austria</i>	Pushing the boundaries of slag operability: Processing of High-MgO nickel concentrates with the Ausmelt® TSL process Jacob Wood, Metso Australia Pty Ltd, Australia	Towards ferrochromium production using molten oxide electrolysis Dr Lassi Klemettinen, Aalto University, Finland	Thermodynamic behavior of TiO2 in CaO- Al2O3–based slags at high temperatures Dongyul Jung, Hanyang University, South Korea
11:45am	Characterizing bubble size distribution and generation position in iron oxide-containing slag smelting reduction Prof. Ko-ichiro Ohno, Kyushu University, Japan	Integrated process modelling for the Kalgoorlie nickel smelter Georgia Sartor, Hatch, Australia	Ferroalloy extraction from a Zimbabwean ore using a closed DC furnace Dr Edson Kugara Chiwandika, Harare Institute of Technology, Zimbabwe	Thermal analysis of molten salts and their mixtures with metals Dr Dmitry Sergeev, NETZSCH-Gerätebau GmbH, Germany
12:10pm	Lunch			Boulevard Foyer
	Session 2 - Recycling of Slags	Session 5 - Non-Ferrous	Session 8 - Hydrogen Reduction	Session 11 - Molten Salts
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Prof. Geoffrey Brooks, Swinburne University of Technology, Australia	Adj. Prof. Gerardo Alvear, University of Queensland, Australia	Prof. Oleg Ostrovskii, University of New South Wales, Australia	Prof. Daniel Lindberg, Aalto University, Finland
1:10pm	Dissolution behaviors of recycled cement paste and lime in simulated EAF slag under static condition Dr Mingrui Yang, University of Warwick, United Kingdom	Experimental and thermodynamic study of the phase equilibria in the NiO-CaO-FeO- Fe2O3 system in air and in equilibrium with metal (Fe-Ni) alloy Dr Svetlana Sineva, PYROSEARCH, University of Queensland, Australia	Hydrogen plasma in extractive metallurgy application <i>Bima Satritama, Swinburne University of</i> <i>Technology, Australia</i>	The extraction of white phosphorus from molten salt Dr Xiao Yang, Westlake University, China
1:35pm	The effect of FeO/SiO2 ratio on the feasibility of utilizing iron silicate slags as supplementary cementitious materials Dr Anton Andersson, Luleå University of Technology, Sweden	Slag-metal interfacial reactions in pyrometallurgical processing of industrial wastes for recovery of valuable metals	Flux smelting behavior of pre-reduced Mn ore by hydrogen at elevated temperatures Pankaj Kumar, Norwegian University of Science and Technology (NTNU), Sweden	Electrolytic reduction of metal sulfides/oxides in molten salts for sustainable metal production <i>Dr Xianfeng Hu, Swerim AB, Sweden</i>
	+	Overview of the experimental phase	A Short Review: Hydrogen Reduction of	Electrodeposition and electrochemical

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2:25pm	Selective reduction of iron and effective enrichment of vanadium from vanadium slag by carbothermic reduction <i>Prof. Shiyuan Liu, University of Science and</i> <i>Technology Beijing, China</i>	Direct observation of the fayalite slag formation behavior from large SiO2 grains Yuko Goto, Sumitomo Metal Mining Co., Ltd, Japan		Deoxidation of Ti-Ni alloy by the calcium and binary halide fluxes <i>Yao Su, Hanyang University, South Korea</i>
2:50pm	Afternoon Tea	-		Boulevard Foyer
	Session 3 - Slag/Steel	Session 6 - Non-Ferrous	Session 9 - Physicochem. Props.	Session 12 - Molten Salts
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Dr P. Chris Pistorius, Carnegie Mellon	Adj. Prof. Gerardo Alvear, University of	Prof. Brian Monaghan, University of	Prof. Daniel Lindberg, Aalto University,
	University, United States	Queensland, Australia	Wollongong, Australia	Finland
3:20pm	Study on change in mould slag characteristics during casting Ti bearing steel grades Preeti Prakash Sahoo, Tata Steel Ltd, India	Phase equilibria study in the sodium metasilicate primary phase field in PbO- Na2O-SiO2 system between 800 and 1000 °C Xi Ling, University of Toronto, Canada	Modelling of Liquid/Liquid Interface Movement during Spindle Rotation of Refractory - Slag Corrosion Test Hana Lee, Tech University of Korea, South Korea	Synthesis of actinide chlorides for molten salt preparation <i>Dr Pierrick Chevreux, CEA, France</i>
3:45pm	Carbon distribution behavior between molten iron and CaO-Al2O3-FeO-SiO2-MgO slag at 1873 K Yeong Jin Jun, Hanyang University, South Korea	Experimental study and thermodynamic modeling of phase equilibria in the FeO- FeO1.5-SbO1.5-SiO2 system in equilibrium with metal Dr Hamed Abdeyazdan, University of Queensland, Australia	Prof. Ramana Reddy, University of Alabama, United States of America	Melting behaviour investigation of municipal solid waste incineration fly ash samples from different incineration technologies for metal recovery: An integrated experimental and modelling approach Ece Soylu, Norwegian University of Science and Technology (NTNU), Norway
4:10pm	Prognostic models for electroslag remelting process and slag engineering Prof. Ganna Stovpchenko, China First Heavy Industries (CFHI), China	Monitoring Sb in lead refining using advanced techniques in Industry 4.0 <i>Amy Van den Bulck, Umicore NV, Belgium</i>	Viscosity of foaming fluid measured by falling ball method Prof. Shigeru Ueda, Tohoku University, Japan	concentrating solar power applications
4:35pm	Characterization and assessment of B2O3 added LF Slag Dr Ashok Kamaraj, Indian Institute of Technology, Hyderabad, India	CFD modeling of slag fuming, with a focus on freeze-lining formation Dr Christian Rodrigues, Montanuniversität Leoben, Austria	A combined molecular dynamics - Experimental investigation of oxidic slag properties Prof. Inge Bellemans, Ghent University, Belgium	

	Sulfur loss from the slag during desulfurization of liquid steel Prof. Deepoo Kumar, Indian Institute of Technology, Bombay, India	high temperature thermal analysis Dali Hariswijaya, Norwegian University of	On the development of a viscosity model for molten multicomponent slag systems with several glass-forming, amphoteric and modifier oxides Dr Alex Kondratiev, Lomonosov Moscow State University, Russian Federation	
5:30pm- 7:30pm	Poster Presentations Meet & Greet			Boulevard Foyer

Tuesday 18	Fuesday 18 June - CONFERENCE DAY 2				
7:30am	Registration Opens, arrival T&C			Boulevard Foyer	
8:25am	Wrap up from Day 1			Boulevard Auditorium	
	Prof. Evgueni Jak , PYROSEARCH, University of	f Queensland, Australia			
8:30am	Plenary Speaker 2: Challenges facing non-fer	rous metal production		Boulevard Auditorium	
	Prof. Daniel Lindberg, Aalto University, Finland	1			
9:10am	Plenary Speaker 3: Fusion of molten phase R	&D into the metallurgical industry to drive circu	ılarity	Boulevard Auditorium	
	Dr Stanko Nikolic MAusIMM, Glencore Techno	ology, Australia			
9:50am	Morning Tea			Boulevard Foyer	
	Session 13 - Steelmaking	Session 16 - Non-Ferrous	Session 19 - Physicochem. Props.	Session 22 - Vanadium and Aluminum	
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3	
Chairs:	Prof. In-Ho Jung, Seoul National University,	Dr Svetlana Sineva, University of	Prof. Inge Bellemans, Ghent University,	Prof. Akbar Rhamdhani, Swinburne	
	South Korea	Queensland, Australia	Belgium	University of Technology, Australia	
10:20am 10:55am	Keynote: Recent advances in understanding phosphorous in oxygen steelmaking Prof. Geoffrey Brooks, Swinburne University of Technology, AustraliaReoxidation of Al-killed ultra-low C steel by 	Keynote: Challenges and limitations in development of large thermodynamic database for multiple molten phases using Modified Quasichemical Formalism Dr Denis Shishin AAusIMM, University of Queensland, Australia Impurity capacities of non-ferrous slags Prof. Ramana Reddy, University of Alabama, United States	Keynote: Ionic Structure Analysis of Relaxed Surface of Molten Oxide Slags for Surface Tension Modeling Assoc. Prof. Masanori Suzuki, Osaka University, Japan Electrical conductivity measurement of CaO- Al2O3-CaF2 slags by van der Pauw-Ohta method Prof. Noritaka Saito, Kyushu University, Japan	Keynote: Phase diagram of V2O3-FetO-SiO2- CaO(15 mass%) system at 1623 K Prof. Baijun Yan, University of Science and Technology Beijing, China Phase relationship of quaternary system FeO- Al2O3-SiO2-"V2O3" at 1873 K and its impact during melting of H-DRI for possible vanadium extraction Dr Johan Martinsson, Swerim AB, Sweden	
11:20am	Effect of MgO content on phase evolution during steelmaking slag cooling process Wenfeng Gu, Tohoku University, China	Improving industrial copper processing operations through the application of thermodynamic fundamentals and advanced predictive tools Adj. Prof. Gerardo Alvear, PYROSEARCH, University of Queensland, Australia	Quantitative studies on the microstructures of ternary CaO-Al2O3-SiO2 glasses, melts and correlation with their high-temperature viscosities <i>Prof. Jinglin You, SKLASS, Shanghai</i> <i>University, China</i>	Viscosity evaluation of hot metal containing vanadium and titanium via a novel measurement technology and the thermodynamic analysis method Assoc. Prof. Wenzhou Yu, Chongqing University, China	

11:45am	On stability of CaS in liquid steel containing	Towards integration of pyro- and	Effect of solid particles on the viscosity of a	Smelting of different hydrogen reduced
	alumina or spinel inclusions	hydrometallurgical unit operations for	secondary copper smelting slag	bauxite residue - Calcite pellets for iron and
	Sandeep Kumar, Indian Institute of	efficient recovery of battery metals from	Dr Olivier Vergote, Ghent University, Belgium	alumina recovery
	Technology, Bombay, India	waste lithium-ion batteries		Manish Kumar Kar, Norwegian University of
		Dr Anna Klemettinen, Aalto University,		Science and Technology (NTNU), Norway
		Finland		
12:10pm	Lunch			Boulevard Foyer
	Session 14 - Steelmaking	Session 17 - Non-Ferrous	Session 20 - Physicochem. Props.	Session 23 - Impurity Distributions
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Prof. In-Ho Jung, Seoul National University,	Dr Svetlana Sineva, University of	Assoc. Prof. Masanori Suzuki, Osaka	Dr Chunlin Chen, CSIRO, Australia
	South Korea	Queensland, Australia	University, Japan	
1:10pm	Comparative study of oxide dissolution	A critical thermodynamic & sustainability	Methodology development of electrical	Distribution behaviour of B and P in Si-slag
	modelling in secondary steelmaking slags	assessment of PCB recycling through	conductivity measurements for non-ferrous	system at 1500 °C
	Nikolaus Preisser, Christian Doppler	secondary Cu smelting process	slags	Prof. M. Akbar Rhamdhani, Swinburne
	Laboratory for Inclusion Metallurgy in	Dr Ashok Kamaraj, Indian Institute of	Pieter-jan Boeykens, Ghent University,	University of Technology, Australia
	Advanced Steelmaking, Austria	Technology, Hyderabad, India	Belgium	
1:35pm	In-situ analysis of steelmaking slags and	Pyrometallurgical treatment of nickel	Machine learning - Enhanced modeling of	Refining of Si-Ca-Al alloys using slag and
	fluxes at elevated temperatures using a	smelting slag with biochar	thermal conductivity of SiO2-Al2O3-CaO	vacuum treatments
	remote fiber optic Raman probe	Desmond Attah-Kyei, Aalto University,	slags	Dr Elif Emil Kaya, Norwegian University of
	Prof Ronald Omalley, Missouri University of	Finland	Dr Kai Tang, SINTEF, Norway	Science and Technology (NTNU), Norway
	Science and Technology, United States			
2:00pm	Crystallization control of CaO-SiO2-Al2O3-	Practicalities of the use of fayalite slags for	Effects of FeO/SiO2 ratio and optical basicity	Aluminothermic production of silicon using
-	MgO system inclusion	recovery of metals from urban wastes	on viscosity and melt structure of	different raw materials
	Dr Yong Wang, Wuhan University of Science	Dr Stuart Nicol MAusIMM(CP), Glencore	FeO-SiO2-Al2O3-CaO-MgO-Cr2O3 melts	Dr Katarina Jakovljevic, Norwegian University
	and Technology, China	Technology, Australia	Dr Jenny Isaksson, Luleå University of	of Science and Technology (NTNU), Norway
			Technology, Sweden	or ocience and recinition by (NTNO), NOrway

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2:25pm	Understanding zinc-containing species in BOS dust Dr Raymond Longbottom, University of Wollongong, Australia	Improvement of the Copper Flash Smelting Furnace (FSF) and the Slag Cleaning Furnace (SCF) process by advice-based control of silica and coke addition Dr Victor Montenegro Gonzalez, Aurubis AG, Germany	Determining the properties of CaO-Al2O3- SiO2 slags from molecular dynamics simulation Dr Mengyi Zhu, Norwegian University of Science and Technology (NTNU), Norway	
2:50pm	Afternoon Tea			Boulevard Foyer
	Session 15 - Steelmaking	Session 18 - Non-Ferrous	Session 21 - CaO-Al2O3-SiO2 Slags	Session 24 - Ironmaking
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Dr Jiang (Jeff) Chen, University of Queensland, Australia	Dr Svetlana Sineva, University of Queensland, Australia	Assoc. Prof. Masanori Suzuki, Osaka University, Japan	Prof. Baijun Yan, University of Science and Technology Beijing, China
3:20pm	Solubility of Nitrogen and Inclusion Characteristics in High Aluminium Steels Dr Mir Ishfaq, Indian Institute of Technology, Bombay, India	Coupled phase diagram experiments and thermodynamic modeling of CaO-SiO2- Ga2O3 system for the recycling of Ga Woon-oh Choe, Seoul National University, South Korea	Molecular dynamics simulation of viscosity of selected pure oxide melts Dr Alex Kondratiev, Lomonosov Moscow State University, Russian Federation	Carburization and Melting of Hot Compacted Iron in a Coke Bed Prof. Joonho Lee, Korea University, South Korea
3:45pm	Effect of Al2O3/SiO2 ratio on structure and properties of mould flux for high-Al steel continuous casting Prof. Oleg Ostrovskii, UNSW Sydney, Australia	Increasing cobalt recovery during oxidative blast of copper-nickel matte Roman Pakhomov, Gipronikel Institute LLC, Russian Federation	Assessment of phase evolution in CaO–MgO–Al2O3–SiO2 system with varied Al2O3/SiO2 ratio using in-situ high- temperature Raman spectroscopy and X-ray scattering Dr Francis Gyakwaa, University of Oulu, Finland	Molten slag flow in an ironmaking blast furnace: A mesoscopic level investigation Dr Xue Feng Dong, University of Wollongong, Australia
4:10pm	Using novel methods to characterise slag films for continuously casting challenging and innovative steel grades Prof. Zushu Li, University of Warwick, United Kingdom	Distribution of Pb, Zn, Fe, Sn, Sb, Bi and Ni between oxide liquid and metal in the "CuO0.5"-CaO-AlO1.5 system in equilibrium with Cu metal Georgii Khartcyzov AAusIMM, PYROSEARCH, University of Queensland, Australia	Mixed alkali effect on structure of Al2O3- based slags <i>Sung-Hee Hyun, POSCO Steelmaking</i> <i>Research Group, South Korea</i>	Modelling of gas-slag flow behavior in the ironmaking blast furnace: A review Dr Xue Feng Dong, University of Wollongong, Australia

4:35pm	Effect of liquefaction controlling components in carbon free mould powders for the continuous casting of ultra-low carbon steels <i>Dr Nathalie Gruber, Montanuniversität</i> <i>Leoben, Austria</i>	copper metal and slags	Boron removal through multistage refining treatment using CaO-SiO ₂ -Al ₂ O ₃ slag Andreas Diga Pratama Putera, Swinburne University of Technology, Australia	Reduction and meliting behaviors of carbon- iron oxide composite using iron carbides and free carbon obtained by vapor deposition <i>Ryota Higashi, Tohoku University, Japan</i>
5:00pm	The effect of iron oxide on sulfide capacities of CaO-based molten slags Dr Masakatsu Hasegawa, Kyoto University, Japan		Slag chemistry on the Moon Surya Pratap Singh, Swinburne University of Technology, Australia	
5:25pm	Free time			
6:00pm -	Aussie Conference Dinner			Boulevard Ballroom
10:00pm				

Wednesday	ednesday 19 June - CONFERENCE DAY 3			
7:30am	Registration Opens, arrival T&C			Boulevard Foyer
8:30am	Wrap up from Day 2			Boulevard Auditorium
	Emer. Prof. Peter Hayes FAusIMM(CP), PYROS	EARCH, University of Queensland, Australia		
8:35am	Plenary Speaker 4: University research on mo	olten slags, matte, speiss and metal systems fo	or high temperature processing – challenges,	Boulevard Auditorium
	opportunities and solutions			
	Prof. Evgueni Jak, PYROSEARCH, University of	Queensland, Australia		
9:15am	Move to next session			
	Session 25 - Electroslag	Session 28 - Process Simulation	Session 31 - Steelmaking	Session 34 - Si-Alloys
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3
Chairs:	Prof. Youn-Bae Kang, Pohang University of	Dr Stuart Nicol MAusIMM(CP), Glencore	Joseph Hamuyuni, Mesto Metals Oy,	Merete Tangstad, Norwegian University of
	Science and Technology (POSTECH), South	Technology, Australia	Finland	Science and Technology, Norway
	Korea			
9:25am	Keynote: State of the art of the electroslag	Keynote: Process modeling and high	Keynote: Sulfur distribution ratio in iron and	Keynote: Efficient material descriptions for
	refining and challenges of ingot cleanness	throughput thermochemical calculations	steelmaking slags	modelling high-temperature processes
	control	using ChemApp for Python	Prof. Ramana Reddy, University of Alabama,	Dr Johan Zietsman, Ex Mente Technologies,
	Prof. Lev Medovar, E.O. Paton Welding	Dr Stephan Petersen, GTT-Technologies,	United States of America	South Africa
	Institute (PWI) & China First Heavy Industries	Germany		
	(CFHI), China			
10:00am	Effect of SiO2 on crystallization and structure	Combining the power of computational	Effect of solid-solved FeO and MnO on	Thermal phosphorus – It's a hot commodity
	of CaF2-CaO-Al2O3 slag used in electroslag	thermochemistry with the convenience of	hydration of free MgO in steelmaking slag	with a hot process
	remelting	Python within the digital platforms of SMS	Dr Ryo Inoue, Tohoku University, Japan	Ewan Wingate FAusIMM(CP), Bechtel Mining
	Midhun P M, Indian Institute of Technology,	Group		& Metals, Australia
	Bombay, India	Dr Sabrine Khadhraoui, SMS Group GmbH,		
		Germany		
10:25am	Genetic design of personalized slag for	Understanding the side-blown furnace slag	A phenomena-based model to investigate the	Manufacturing of FeSiB high-temperature
	manufacturing die steel via electroslag	-	possibility of scrap melting in an Open Slag	phase change material by silicothermic
	remelting method and an industrial	From theory to industrial application	Bath Furnace (OSBF) for green ironmaking	reduction
	application case	Dr Alejandro Abadias Llamas, Nordenham	Ali Emami, Tata Steel Technology B.v.,	Dr Jianmeng Jiao, Norwegian University of
	Prof. Zhouhua Jiang, Northeastern University,	Metall GmbH, Germany	Netherlands	Science and Technology (NTNU), Norway
	China			
10:50am	Morning Tea			Boulevard Foyer
	Session 26 - Steelmaking	Session 29 - Refractory	Session 32 - DRI and EAF	Session 35 - Mn and Ti Production
	Boulevard Auditorium	Boulevard B1	Boulevard B2	Boulevard B3

Chairs:	Science and Technology (POSTECH), South Korea	University of Queensland, Australia	Prof. Ramana Reddy, University of Alabama, United States	Dr Johan Zietsman, Ex Mente Technologies, South Africa
11:20am	An investigation of potential wear occurring on refractory lining and coating formation - A remedy of wear in a basic oxygen steelmaking furnace using CFD modelling Dr Subhasish Mitra MAusIMM, The University of Newcastle, Australia	Corrosion behavior of ferrite and aluminate refractories in cryolite-aluminium melts Prof. M. Akbar Rhamdhani, Swinburne University of Technology, Australia	Molybdenum disilicide production using a silicon-containing molten bath via the hot dipping method Dr Jonah Gamutan, Curtin University, Australia	Dissolution of quartz in Mn-slags during production of SiMn alloy <i>Dr Vincent Canaguier, SINTEF AS, Norway</i>
11:45am	Activities of components in Ca2SiO4- Ca3P2O8 solid solution at 1573 K <i>Keijiro Saito, Kyoto University, Japan</i>	The interaction between slag and MgO refractory at conditions relevant to nickel laterite ore smelting Dr Taufiq Hidayat, Institut Teknologi Bandung, Indonesia	A study of heat and material balances in direct reduction plant with various conditions <i>MinJu Sun, Hyundai Steel, South Korea</i>	Flow investigation of multiphase manganese slags Vishal Rimal, Norwegian University of Science and Technology (NTNU), Norway
12:10pm	A machine learning model to predict non- metallic inclusion dissolution in the metallurgical slag Assoc. Prof. Wangzhong Mu, KTH Royal Instutute of Technology, Sweden	alumina slags	Slag volume effects on DRI-based electric furnace steelmaking Dr P. Chris Pistorius, Carnegie Mellon University, United States	Increasing the deportment of titanium species to, and the stability field of pseudobrookite phase for valorisation of titaniferous slags <i>Dr Xolisa Goso, Mintek, South Africa</i>
12:35pm	Lunch			Boulevard Foyer
	Session 27 - Steelmaking Boulevard Auditorium	Session 30 - Phase Analysis Boulevard B1	Session 33 - Ironmaking Boulevard B2	Session 36 - CO2 Reduction Boulevard B3
Chairs:	Prof. Lev Medovar, E.O. Paton Welding Institute (PWI) & China First Heavy Industries (CFHI), China	Dr Denis Shishin AAusIMM, PYROSEARCH,	Prof. Ramana Reddy, University of Alabama, United States	Dr Johan Zietsman, Ex Mente Technologies, South Africa
1:35pm	Effect of CeO2 content on the fluidity of continuous casting mold slag Zhang Chen, University of Science and Technology Beijing, China	Keynote: Chemical- and micro-analytical techniques for molten slags, mattes, speisses and alloys Dr Jiang (Jeff) Chen, PYROSEARCH, University of Queensland, Australia	An investigative study on the interfacial behavior of waste graphite resource with liquid iron Dr Smitirupa Biswal, UNSW Sydney, Australia	Measuring circular economy through Life Cycle Assessment: challenges and recommendations based on a study on recycling of Al dross, bottom ash and shavings <i>Elisa Pastor-Vallés, Norwegian University of</i> <i>Science and Technology (NTNU), Norway</i>

2:00pm 2:10pm 2:25pm	Effect of C/A ratio on the crystallization behavior and structure of calcium-aluminate based alternative mould fluxes for casting medium and high Mn/Al steels <i>Prof. Rahul Sarkar, Indian Institute of</i> <i>Technology, Kanpur, India</i>	Visualisation of calculated thermodynamic properties by integration of FactSage with	ore sinters from the perspective of the phase equilibria of the CaO-SiO2-Fe2O3-Al2O3 system Prof. Miyuki Hayashi, Tokyo Institute of Technology, Japan	Pyrolyzed secondary raw materials, bio-coke, and hydrogen as alternative reducing agents Dr Fabian Diaz, RWTH Aachen University, Germany
2:25pm 2:40pm		SEM-EDS element maps Nathan Barrett AAusIMM, Centre for Ironmaking Materials Research, Australia Thermodynamic modeling of the Fe-Al-Ti-O	Haeun Kim, Korea University, South Korea	The possibility of using an autogenous hydrogen-DRI slag as a raw material for vanadium extraction Dr Johan Martinsson, Swerim AB, Sweden
2:50pm		system and evolution of Al-Ti complex inclusions during Ti-added ultra low carbon steel production Young-Joon Park, Pohang University of Science and Technology (POSTECH), South Korea	Fluxing options and slag operating window for Metso's DRI smelting furnace <i>Joseph Hamuyuni, Mesto, Finland</i>	
3:15pm	Glencore Technology Presentation Poster W Emer. Prof. Peter Hayes FAusIMM(CP), PYROS		•	Boulevard Auditorium
3:45pm	Thanks Molten 2028 Emer. Prof. Peter Hayes FAusIMM(CP), PYROS			Boulevard Auditorium